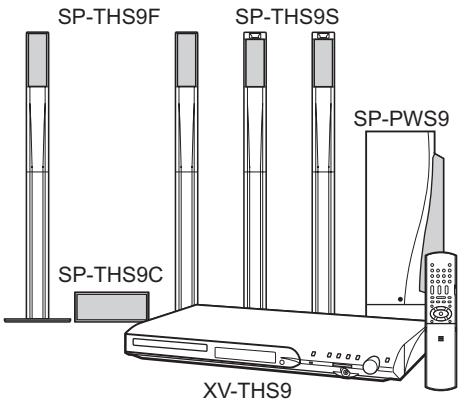
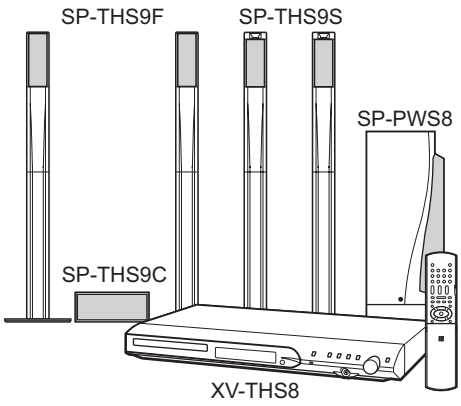
JVC

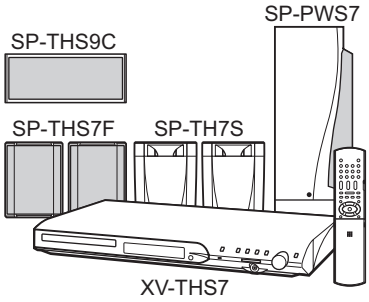
SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

TH-S9,TH-S8,TH-S7







R·D·S

DVD AUDIO/VIDEO

COMPACT disc SUPER VIDEO

DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

SD *Digital Direct Progressive Scan*

	TH-S9	TH-S8	TH-S7
SD card	○	×	○

TH-S9

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

TH-S8

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

TH-S7

Area suffix

E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

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No.MB236
2004/6

SPECIFICATION

Center unit (XV-THS9/XV-THS7)

Audio section	Total Harmonic Distortion*1		0.02%
	Digital input*2	DIGITAL IN (OPTICAL)	-21 dBm to -15 dBm (660 nm E30 nm)
Video section	Video System		PAL
	Horizontal Resolution		500 lines
	Signal-to-Noise Ratio (Composite signal when "RGB" is selected)		64 dB
	Video output level	Composite	1.0 V(p-p)/75 Ω
		S-video-Y	1.0 V(p-p)/75 Ω
		S-video-C	0.3 V(p-p)/75 Ω
		Component-Y	1.0 V(p-p)/75 Ω
		Component-PB/PR	0.7 V(p-p)/75 Ω
		RGB	0.7 V(p-p)/75 Ω
Tuner section	Tuning Range	FM	87.50 MHz to 108.00 MHz
		AM (MW)	522 kHz to 1 629 kHz
General	Power Requirements		AC 230 V , 50 Hz
	Power Consumption		18 W (at operation) 2.0 W (in standby mode)
	Dimensions (W × H × D)		435 mm × 58 mm × 319 mm
	Mass		3.5 kg

*1: This value is measured at System cord CONNECTOR for reference.
*2: Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency - 32 kHz, 44.1 kHz, 48 kHz)

Center unit (XV-THS8)

Audio section	Total Harmonic Distortion*1		0.02%
	Digital input*2	DIGITAL IN (OPTICAL)	-21 dBm to -15 dBm (660 nm E30 nm)
Video section	Video System		PAL
	Horizontal Resolution		500 lines
	Signal-to-Noise Ratio (Composite signal when "RGB" is selected)		64 dB
	Video output level	Composite	1.0 V(p-p)/75 Ω
		S-video-Y	1.0 V(p-p)/75 Ω
		S-video-C	0.3 V(p-p)/75 Ω
		Component-Y	1.0 V(p-p)/75 Ω
		Component-PB/PR	0.7 V(p-p)/75 Ω
		RGB	0.7 V(p-p)/75 Ω
Tuner section	Tuning Range	FM	87.50 MHz to 108.00 MHz
		AM (MW)	522 kHz to 1 629 kHz
General	Power Requirements		AC 230 V , 50 Hz
	Power Consumption		18 W (at operation) 2.0 W (in standby mode)
	Dimensions (W × H × D)		435 mm × 57 mm × 319 mm
	Mass		3.0 kg

*1: This value is measured at System cord CONNECTOR for reference.
*2: Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency - 32 kHz, 44.1 kHz, 48 kHz)

Subwoofer (SP-PWS9/SP-PWS7)

Amplifier section	Front/Center/Surround	80 W per Ωhannel, RMS at 6 Ω (Center/Surround)/120 W per Ωhannel, RMS at 4 Ω (Front) at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer	120 W, RMS at 4 Ω at 100 Hz, with 10 % total harmonic distortion.
Speaker section	Speaker unit	16 cm Bass-reflex, Magnetically Shielded
	Frequency Range	30 Hz to 200 Hz
General	Power Requirements	AC 230 V , 50 Hz
	Power Consumption	110 W (at operation) 0 W (in standby mode)
	Dimensions (W × H × D)	170 mm × 412 mm × 444 mm
	Mass	12.0 kg

Subwoofer (SP-PWS8)

Amplifier section	Front/Center/Surround	80 W per Ωhannel, RMS at 6 Ω (Center/Surround)/120 W per Ωhannel, RMS at 4 Ω (Front) at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer	120 W, RMS at 4 Ω at 100 Hz, with 10 % total harmonic distortion.
Speaker section	Speaker unit	16 cm Bass-reflex, Magnetically Shielded
	Frequency Range	30 Hz to 200 Hz
General	Power Requirements	AC 230 V , 50 Hz
	Power Consumption	110 W (at operation) 0 W (in standby mode)
	Dimensions (W × H × D)	170 mm × 412 mm × 444 mm
	Mass	12.0 kg

Satellite Speakers

Front speakers (SP-THS9F)	Speakers	5.5 cm × 2, 3.0 cm Bass-reflex, Magnetically Shielded
	Power Handling Capacity	120 W
	Impedance	4 Ω
	Frequency Range	95 Hz to 40 kHz
	Dimensions (W × H × D)	250 mm × 1 103 mm × 250 mm
	Mass	3.67 kg
Surround speakers (SP-THS9S)	Speakers	5.5 cm × 2 Bass-reflex, Magnetically Shielded
	Power Handling Capacity	80 W
	Impedance	6 Ω
	Frequency Range	90 Hz to 30 kHz
	Dimensions (W × H × D)	250 mm × 1 103 mm × 250 mm
	Mass	3.77 kg
Center speaker (SP-THS9C)	Speakers	5.5 cm × 2, 3.0 cm Bass-reflex, Magnetically Shielded
	Power Handling Capacity	80 W
	Impedance	6 Ω
	Frequency Range	90 Hz to 40 kHz
	Dimensions (W × H × D)	209 mm × 85 mm × 92 mm
	Mass	0.87 kg

Designs & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

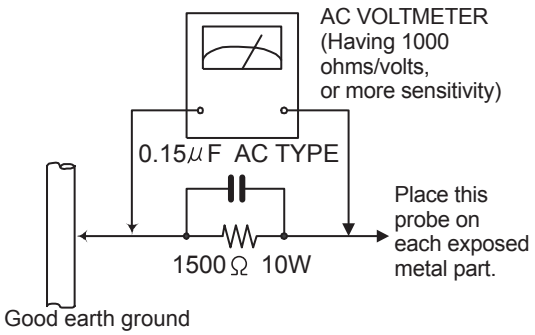
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
(2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
(3) Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

(1) Service should be performed by qualified personnel only.
(2) This equipment has been designed and manufactured to meet international safety standards.
(3) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(4) Repairs must be made in accordance with the relevant safety standards.
(5) It is essential that safety critical components are replaced by approved parts.
(6) If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

1.6 Preventing static electricity

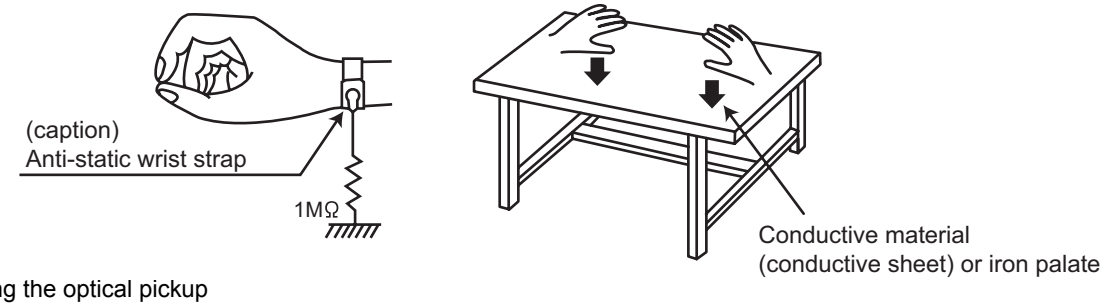
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.6.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

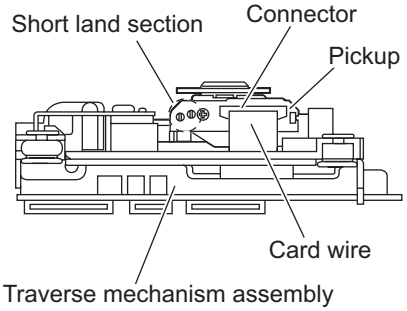
1.7 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.8 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.9 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated.
AVOID DIRECT EXPOSUREBTO BEAM.

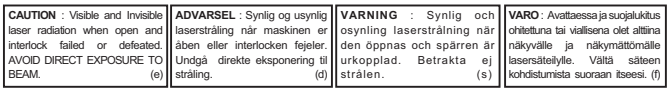
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.

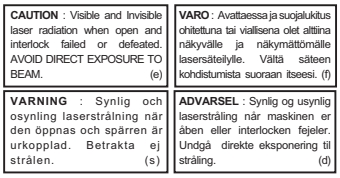
VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymätttömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL


CAUTION : Visible and Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejeler. Undgå direkte eksponering til stråling. (d)
VARNING : Synlig och osynling laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)
VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)


CAUTION : Visible and Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
VARNING : Synlig och osynling laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejeler. Undgå direkte eksponering til stråling. (d)

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the top cover assembly
(See Figs.1 to 3) [For XV-THS9 and XV-THS7 models]

(1) From the back side of the main body, remove the five screws **A** attaching the top cover assembly. (See Fig.1)
(2) From the both sides of the main body, release the engagement sections **a** to remove the side panels (L)/(R) from the main body in the direction of the arrow. (See Figs.2 and 3.)
(3) Remove the four screws **B** attaching the top cover assembly. (See Figs.2 and 3.)
(4) Lift the rear section of the top cover assembly upward and remove the top cover assembly from the main body. (See Figs.2 and 3.)

3.1.2 Removing the metal cover
(See Figs.1 to 3) [For XV-THS8 model]

(1) From the back side of the main body, remove the three screws **A** attaching the metal cover. (See Fig.1)
(2) From the both sides of the main body, remove the four screws **B** attaching the metal cover. (See Figs.2 and 3)
(3) Lift the rear section of the metal cover upward while extending the lower sections of the metal cover. (See Figs.2 and 33.)

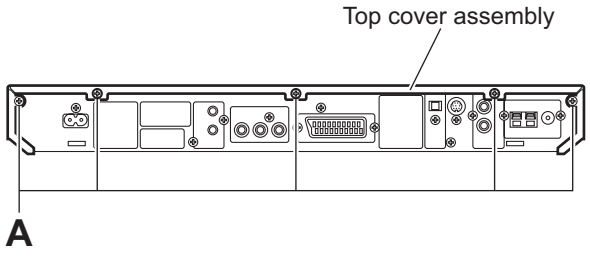
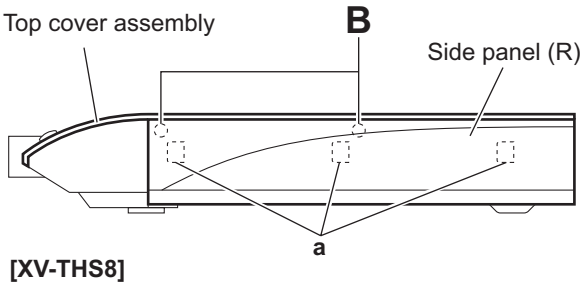


Fig.1

[XV-THS9, XV-THS7]



[XV-THS8]

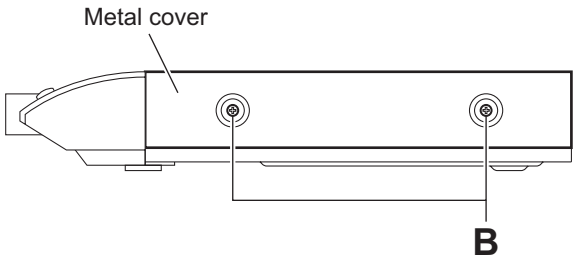
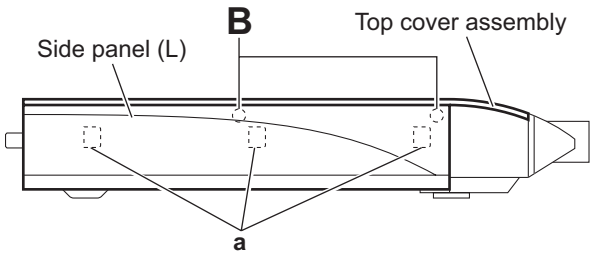


Fig.2

[XV-THS9, XV-THS7]



[XV-THS8]

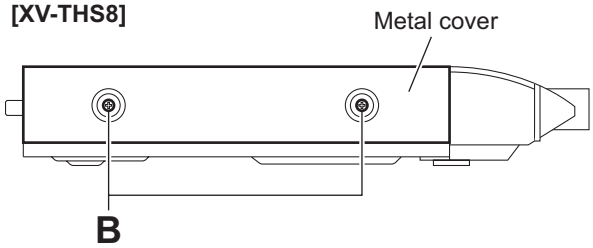


Fig.3

3.1.3 Removing the front panel assembly (See Figs.4 and 5)

- Prior to performing the following procedures, remove the top cover assembly or metal cover.
  (1) From the top side of the main body, disconnect the card wires from the connectors (CN451, CN452) on the main board. (See Fig.4)
  (2) Disconnect the card wire from the connector CN802 on the SD card board. **[For XV-THS9 and XV-THS7 models]** (See Fig.4.)
  (3) Remove the screw **C** attaching the earth wires to the main board. (See Fig.4)

  Reference:
  When attaching the screw **C**, attach the earth wires with it. (See Fig.4)
  (4) From the bottom side of the main body, remove the four screws **D** attaching the front panel assembly. (See Fig.5)
  (5) Remove the front panel assembly in the direction of the arrow while releasing the joint **b**. (See Fig.5)

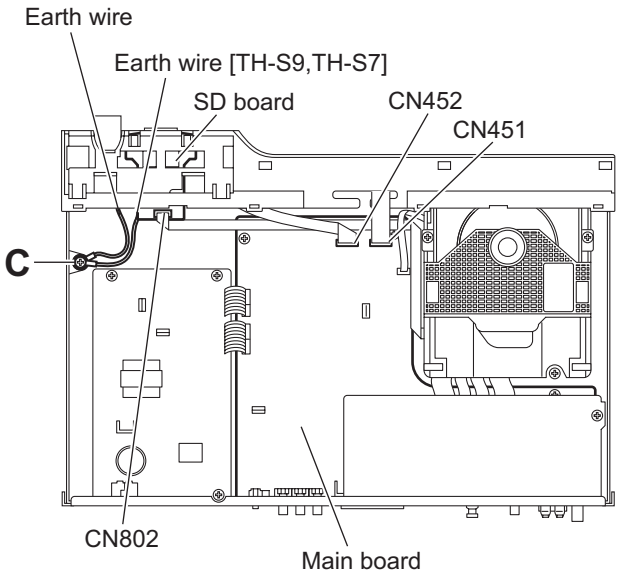


Fig.4

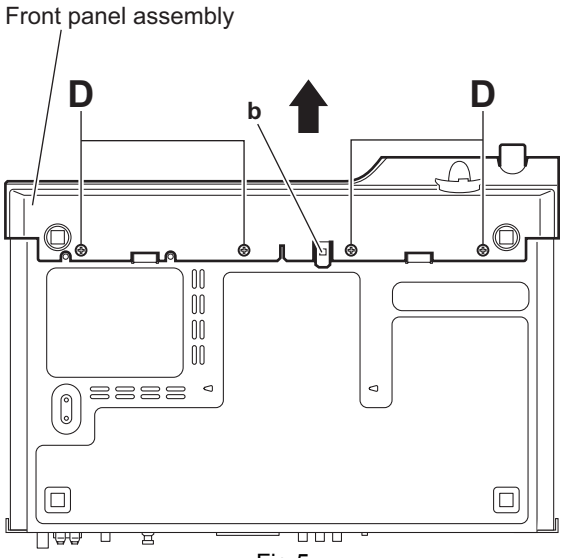


Fig.5

3.1.4 Removing the rear panel (See Fig.6)

- Prior to performing the following procedures, remove the top cover assembly or metal cover.
  (1) From the back side of the main body, remove the twelve screws **E** and screw **F** attaching the rear panel. **[For XV-THS9 and XV-THS7 models]**
  (2) From the back side of the main body, remove the fourteen screws **E** and screw **F** attaching the rear panel. **[For XV-THS8 model]**
  (3) Release the engagement sections **c** and remove the rear panel from the main body.

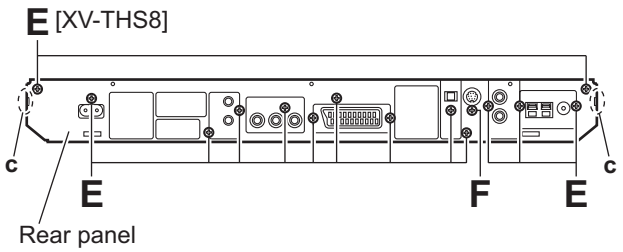


Fig.6

3.1.5 Removing the audio signal I/O board (See Figs.7 and 8)

- Prior to performing the following procedures, remove the top cover assembly or metal cover.
  (1) From the back side of the main body, remove the screw **G** and three screws **H** attaching the audio signal I/O board to the rear panel. (See Fig.7)
  (2) From the top side of the main body, remove the screw **J** attaching the audio signal I/O board to the chassis base. (See Fig.8)
  (3) Turn over the audio signal I/O board and disconnect the card wires from the connectors (CN441, CN442) on the forward side of the audio signal I/O board. (See Fig.8)

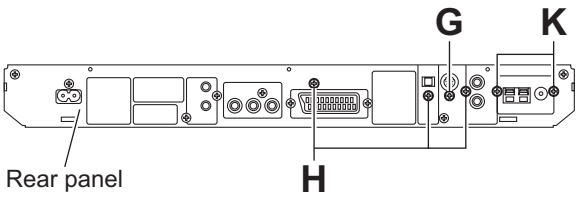


Fig.7

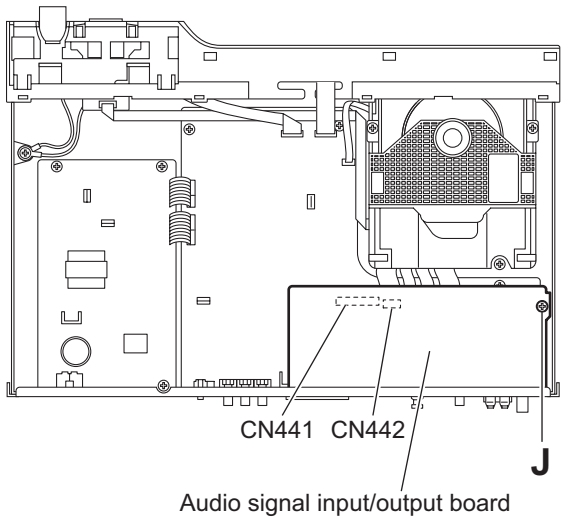


Fig.8

3.1.6 Removing the tuner (See Figs.7 to 9)

- Prior to performing the following procedures, remove the top cover assembly or metal cover and audio signal I/O board.

Reference:

Disconnect the card wires from the connectors (CN441, CN442) on the audio signal I/O board as required. (See Fig.8.)
(1) From the back side of the main body, remove the two screws **K** attaching the tuner to the rear panel. (See Fig.7)
(2) From the top side of the main body, disconnect the card wire from the connector CN410 on the main board. (See Fig.9)
(3) Take out the tuner from the main body.

3.1.7 Removing the DVD mechanism assembly (See Fig.9)

- Prior to performing the following procedures, remove the top cover assembly or metal cover and audio signal I/O board.
  (1) From the top side of the main body, disconnect the card wires from the connectors (CN401 to CN403, CN408, CN409) on the main board.
  (2) Disconnect the card wire from the connector CN802 on the SD card board. **[For TH-S9 and TH-S7 models]**

  Reference:

  After connecting the card wire to the connector CN802 on the SD card board, fix the card wire with the spacers as before.
  (3) Remove the three screws **L** attaching the DVD mechanism assembly on the main body.
  (4) Take out the DVD mechanism assembly from the main body.

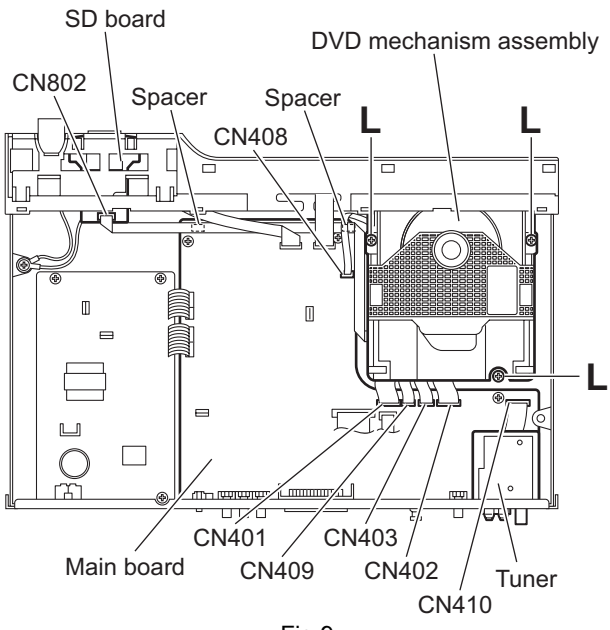


Fig.9

3.1.8 Removing the power board (See Figs.10 and 11)

- Prior to performing the following procedures, remove the top cover assembly or metal cover.
  (1) From the back side of the main body, remove the screw **M** attaching the power board to the rear panel. (See Fig.10)
  (2) From the top side of the main body, disconnect the parallel wires from the connectors (CN404 to CN407) on the main board. (See Fig.11)
  (3) Remove the three screws **N** attaching the power board. (See Fig.11)
  (4) Take out the power board from the main body.

Reference:

When attaching the power board on the chassis base, align the projection **d** of the chassis base in the hole of the power board. (See Fig.11.)

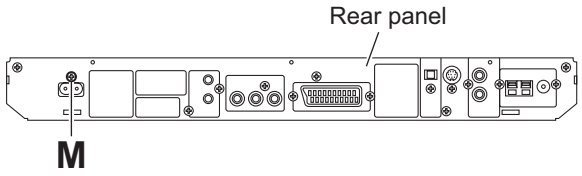


Fig.10

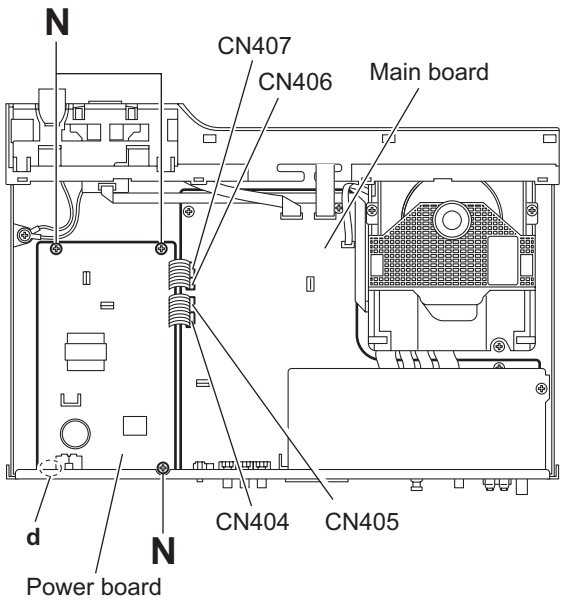


Fig.11

3.1.9 Removing the main board (See Figs.12 and 13)

- Prior to performing the following procedures, remove the top cover assembly or metal cover, audio signal I/O board and tuner.
  (1) From the back side of the main body, remove the seven screws **P** attaching the rear panel. (See Fig.12.)
  (2) Release the engagement sections **e** and remove the rear panel from the main body. (See Fig.12.)
  (3) From the top side of the main body, disconnect the card wires from the connectors (CN401 to CN403, CN408, CN409, CN451, CN452) on the main board. (See Fig.13.)
  (4) Disconnect the parallel wires from the connectors CN404 to CN407 on the main board. (See Fig.13.)
  (5) Remove the spacers fixing the card wires on the main board. **[For XV-THS9, XV-THS7 models]** (See Fig.13.)

  Reference:

  After attaching the main board, fix the card wire with the spacers as before.
  (6) Remove the three screws **Q** attaching the main board on the main body.
  (7) Take out the main board from the main body.

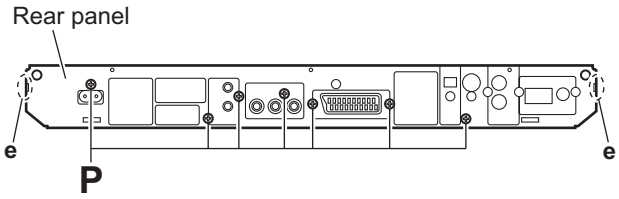


Fig.12

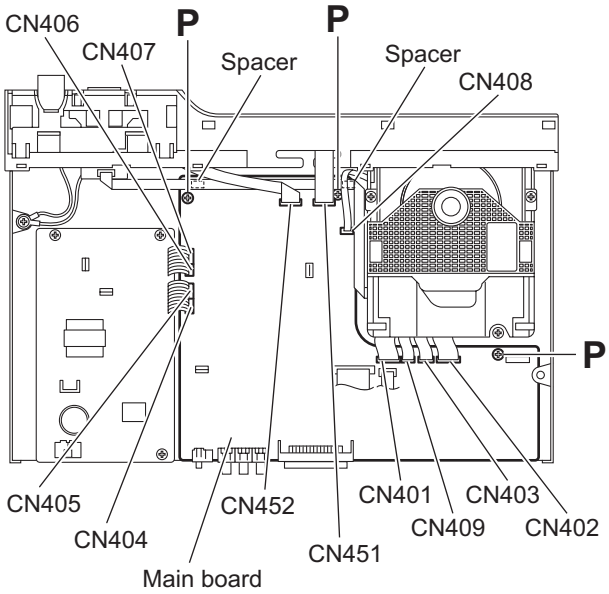


Fig.13

3.1.10 Removing the FL board
(See Fig.14)

- Prior to performing the following procedures, remove the top cover assembly or metal cover and front panel assembly.
  (1) From the inside of the front panel assembly, remove the screw **R** attaching the FL board.
  (2) Take out the FL board from the front panel assembly.

Reference:

- When attaching the FL board, align the section **f** of the front panel assembly to the right side of the FL board.
- After attaching the FL board, passing the card wire through the section **g**.

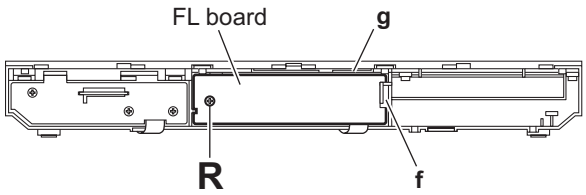


Fig.14

3.1.11 Removing the key board
(See Figs.15 to 16)

- Prior to performing the following procedures, remove the top cover assembly or metal cover, front panel assembly and FL board.
- It is not necessary to remove the FL board. **[For XV-THS9 and XV-THS7 models]**
  (1) From the front side of the front panel assembly, pull the volume knob out of the front panel assembly in the direction of the arrow. (See Fig.15.)
  (2) From the inside of the front panel assembly, release the seven claws **h** attaching the front cover assembly. **[For XV-THS8 model]** (See Fig.16.)
  (3) Remove the front cover assembly in the direction of the arrow. **[For XV-THS8 model]** (See Fig.16.)
  (4) Remove the three screws **S** attaching the key board and take out the key board from the front panel assembly. (See Fig.16.)

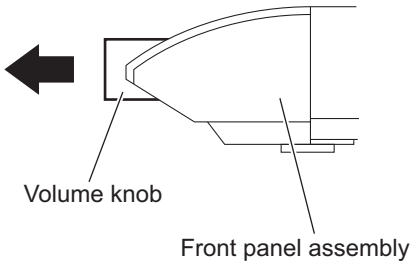
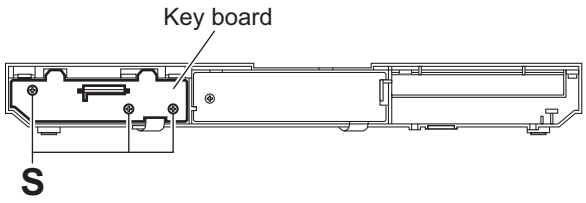


Fig.15

[XV-THS9, XV-THS7]



[XV-THS8]

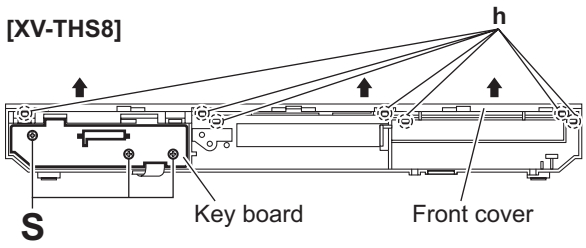


Fig.16

3.1.12 Removing the SD card board
(See Fig.17) [For XV-THS9 and XV-THS7 model]

- Prior to performing the following procedures, remove the top cover assembly or metal cover, front panel assembly and key board.
  From the top side of the front panel assembly, remove the SD card board in the direction of the arrow while releasing the sections **i** of the front panel assembly.

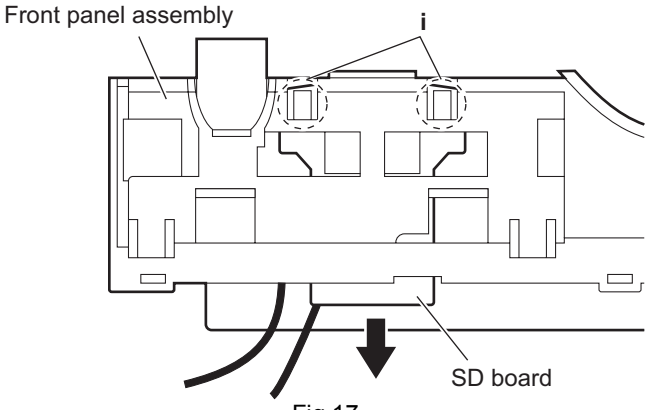


Fig.17

3.2 DVD mechanism section

- Prior to performing the following procedures, remove the DVD mechanism assembly from the main body. (See "3.1.7 Removing the DVD mechanism assembly".)

3.2.1 Removing the tray assembly (See Figs.1 to 3)

(1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the DVD mechanism assembly in the direction of the arrow. (See Fig.1.)
(2) From the top side of the DVD mechanism assembly, remove the two screws **A** attaching the leaf spring to the bushing and remove the leaf spring. (See Fig.2.)
(3) Remove the bushing of the tray assembly from the projection **a** on the DVD mechanism assembly and move the tray assembly in the direction of the arrow. (See Fig.3.)
(4) Remove the claw **b** of the tray assembly from the DVD mechanism assembly and take out the tray assembly. (See Fig.3.)

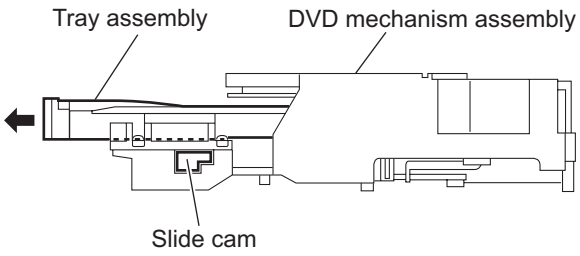


Fig.1

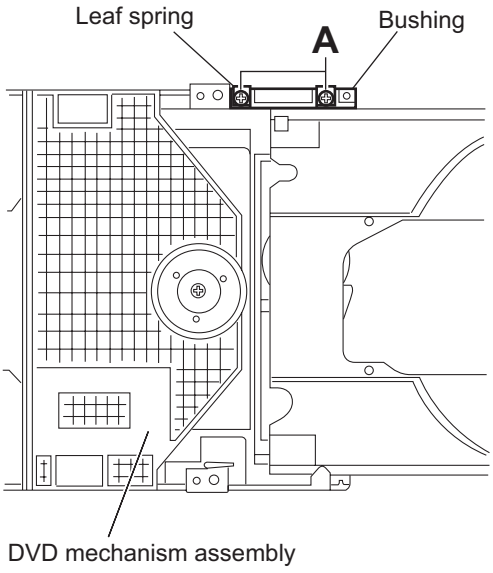


Fig.2

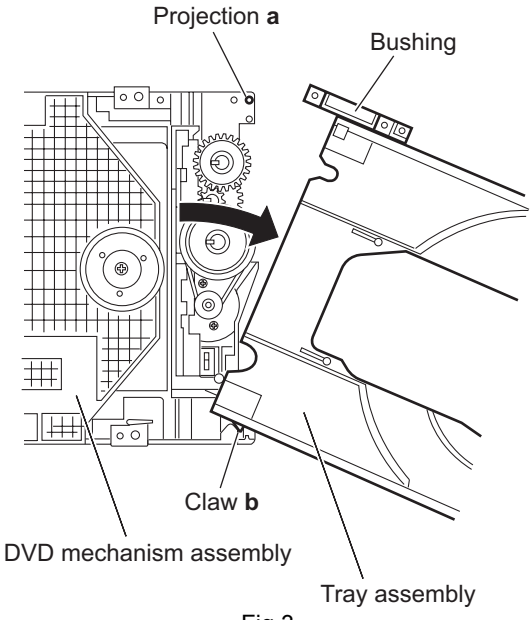


Fig.3

3.2.2 Removing the traverse mechanism assembly (See Figs.4)

From the bottom side of the DVD mechanism assembly, remove the three screws **B** and screw **B'** attaching the traverse mechanism assembly and take out the DVD traverse mechanism assembly with the DVD servo board.

Reference:

When attaching the screw **B'**, attach the washer with it.

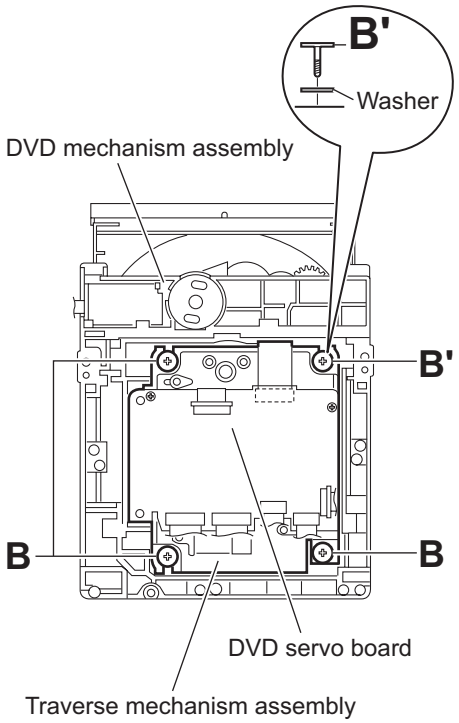


Fig.4

3.2.3 Removing the DVD servo board (See Figs.5 and 6)

- Prior to performing the following procedures, remove the traverse mechanism assembly.
  (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
  (2) From the bottom side of the traverse mechanism assembly, release the lock of the connector CN101 on the DVD servo board in the direction of the arrow 1 and disconnect the card wire. (See Fig.6.)

  Caution:
  - Solder the short land sections **c** on the pickup before disconnecting the card wire from the connector CN101 on the DVD servo board. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 6.)
  - When attaching the DVD servo board, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector CN101 on the DVD servo board. (See Figs.5 and 6.)

  (3) Disconnect the card wire from the connector CN201 on the DVD servo board. (See Fig.6.)
  (4) Remove the two screws **C** attaching the DVD servo board. (See Fig.6.)
  (5) Remove the DVD servo board from the engagement section **d** in an upward and remove the engagement section **f** in the direction 3 while removing the engagement section **e** in the direction of the arrow 2. (See Fig.6.)

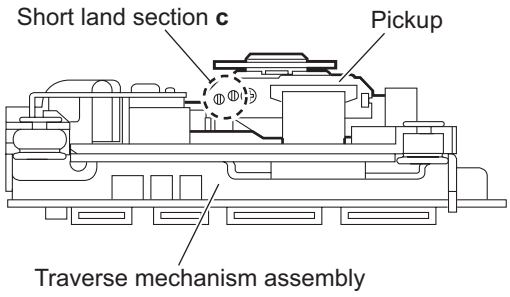


Fig.5

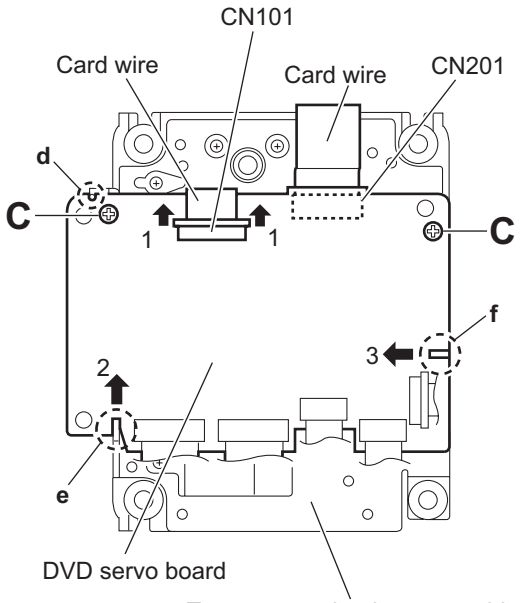


Fig.6

3.2.4 Removing the pickup (See Figs.5, 7 to 9)

- Prior to performing the following procedures, remove the traverse mechanism assembly.
  (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
  (2) Release the lock of the connector on the pickup in the direction of the arrow and disconnect the card wire. (See Fig.7.)

  Caution:
  - Solder the short land sections **c** on the pickup before disconnecting the card wire from the connector on the pickup. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 7.)
  - When attaching the pickup, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)

  (3) Remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
  (4) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
  (5) Remove the shaft of the pickup from the section **h** on the traverse mechanism assembly and remove the shaft from the section **i** while moving it in the direction of the arrow. (See Fig.8.)
  (6) Remove the pickup from the section **j** of the traverse mechanism assembly and take out the pickup with the shaft. (See fig.8.)
  (7) From the bottom side of the pickup, remove the two screws **E** attaching the SW actuator and LEAD spring. (See Fig.9.)
  (8) Pull the shaft out of the pickup. (See Fig.9.)

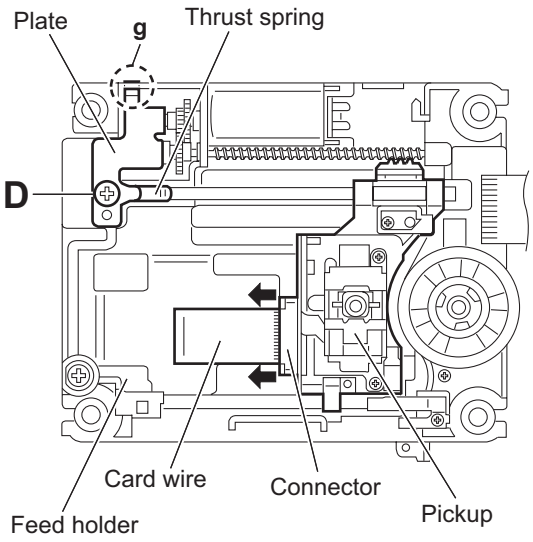


Fig.7

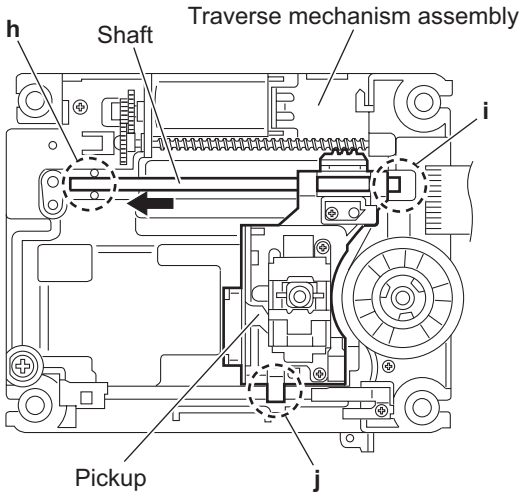


Fig.8

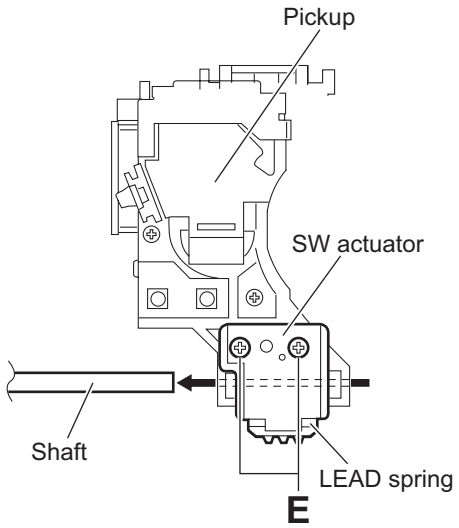


Fig.9

3.2.5 Attaching the pickup (See Figs.5, 7 to 10)

- See "3.2.4 Removing the pickup".
  (1) Attach the shaft, SW actuator and LEAD spring to the pick-up. (See Fig.9.)
  (2) Align the pickup to the section **j** of the traverse mechanism assembly first, and set the both ends of the shaft of the pickup in the sections **g** and **i** of the traverse mechanism assembly. (See Fig.8.)
  (3) Attach the plate and thrust spring. (See Fig.7.)
  (4) Remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)
  (5) Turn the feed gear M in the direction of the arrow 1 to move the pickup in the direction of the arrow 2. (See Fig.10.)

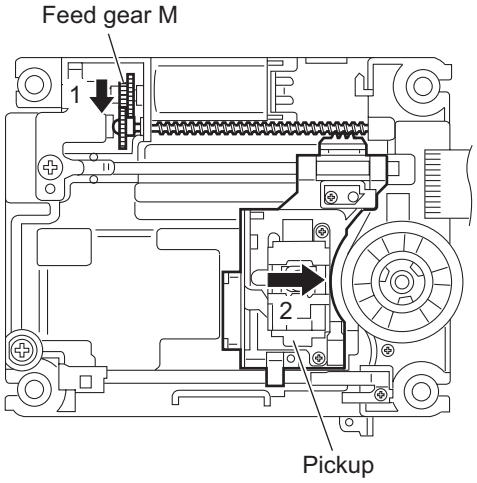


Fig.10

3.2.6 Removing the feed motor (See Figs.7,11 and 12)

- Prior to performing the following procedures, remove the traverse mechanism assembly.
  (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
  (2) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
  (3) Remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)

  Reference:

  When attaching the feed motor, pass the wire through the section **m** on the spindle base. (See Fig.11.)
  (4) Remove the feed holder, feed motor, lead screw, feed gear E and feed gear M at the same time after removing the two screws **F** attaching the feed holder. (See Fig.11.)
  (5) From the side of the feed holder, remove the two screws **G** attaching the feed motor. (See Fig.12.)

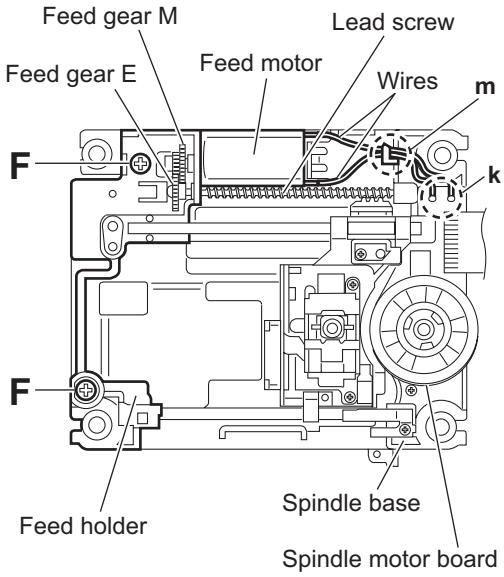


Fig.11

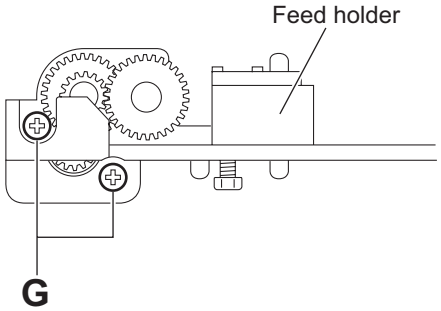


Fig.12

3.2.7 Removing the spindle motor board (See Figs.11 and 13)

- Prior to performing the following procedures, remove the traverse mechanism assembly and DVD servo board.
  (1) From the top side of the traverse mechanism assembly, remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)
  (2) From the bottom side of the traverse mechanism assembly, remove the three screws **H** attaching the spindle motor board. (See Fig.13.)

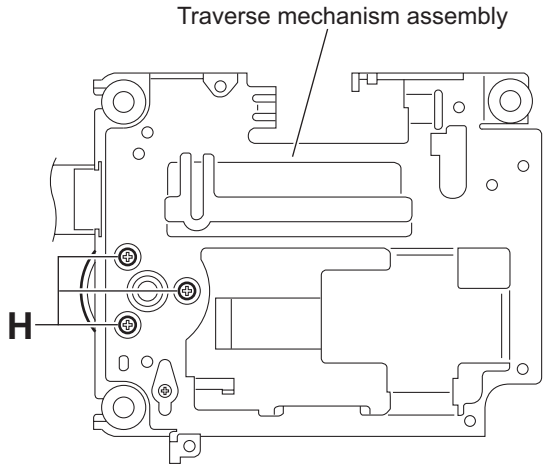


Fig.13

3.2.8 Removing the switch board (See Fig.14.)

(1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** on the switch board.
(2) Lift the switch board while pressing the claw **p** of the DVD mechanism assembly in the direction of the arrow and remove it from the section **q**.

Reference:

- Put the wires on the section **r** after attaching the switch board to the DVD mechanism assembly.
- Fix the claw **p** on the DVD mechanism assembly with bonds after attaching the switch board.

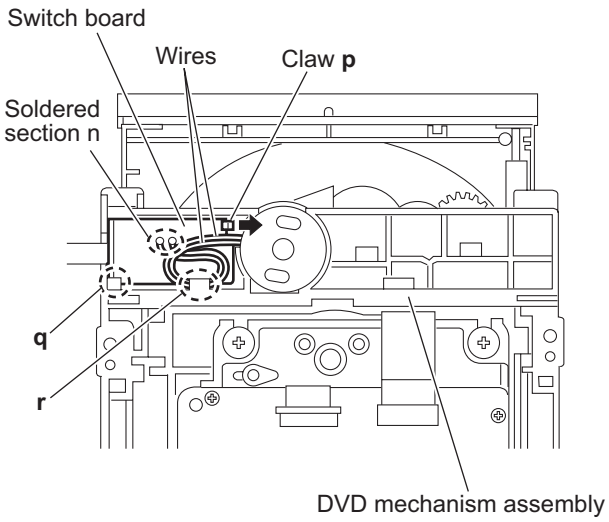


Fig.14

3.2.9 Removing the motor (See Figs.14 and 15)

- Prior to performing the following procedures, remove the tray assembly.
  (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** on the switch board. (See.Fig.14.)
  (2) From the top side of the DVD mechanism assembly, remove the belt from the motor pulley. (See Fig.15.)

  Note:
  Take care not to attach grease on the belt.
  (3) Remove the two screws **J** attaching the motor to the DVD mechanism assembly and take out the motor from the bottom side of the DVD mechanism assembly. (See Fig.15.)

Reference:

Put the wires on the section **r** after attaching the motor to the DVD mechanism assembly. (See Fig.14.)

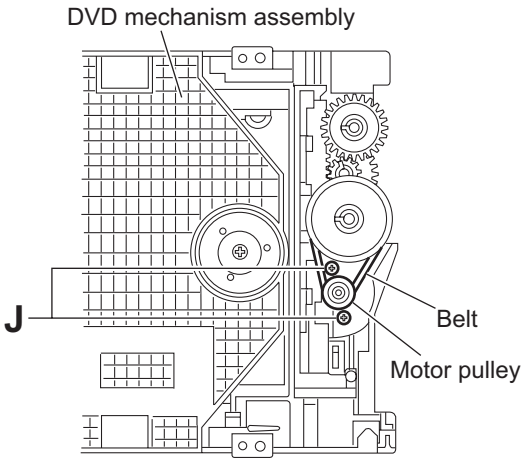


Fig.15

3.3 Subwoofer section

3.3.1 Removing the amplifier assembly (See Figs.1 to 3)

(1) From the back side of the speaker main body, remove two screws **A** attaching the amplifier assembly. (See Fig.1.)
(2) From the bottom side of the speaker main body, remove the eight screws **B** attaching amplifier assembly. (See Fig.2.)
(3) From the left side of the speaker main body, move the amplifier assembly backward and disconnect the wire from the connector CN274 on the mother board. (See Fig.3)

Reference:

After connecting the wire to the connector CN274 on the mother board, bundles the wire by the wire clamp. (See Fig.3.)

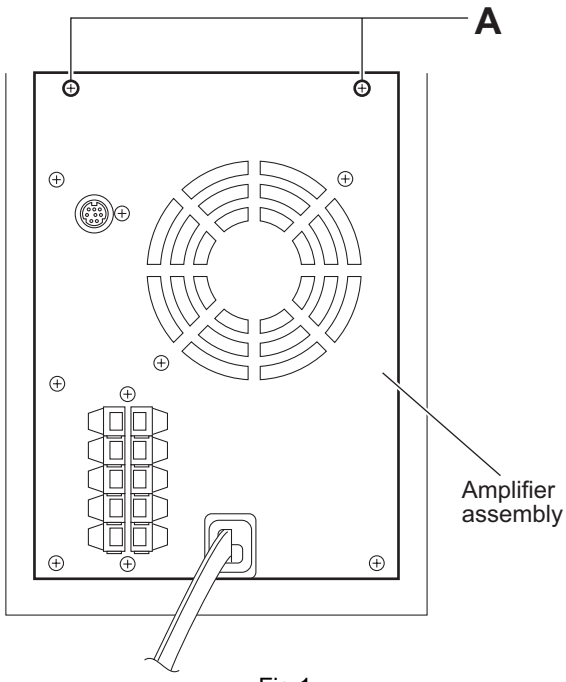


Fig.1

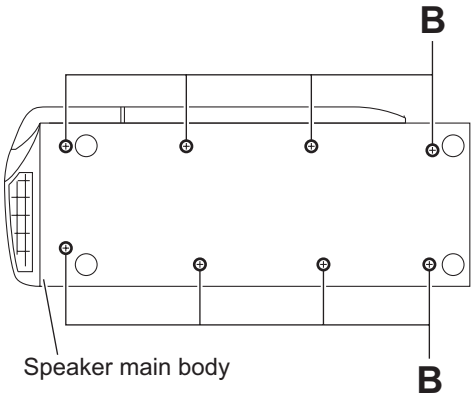


Fig.2

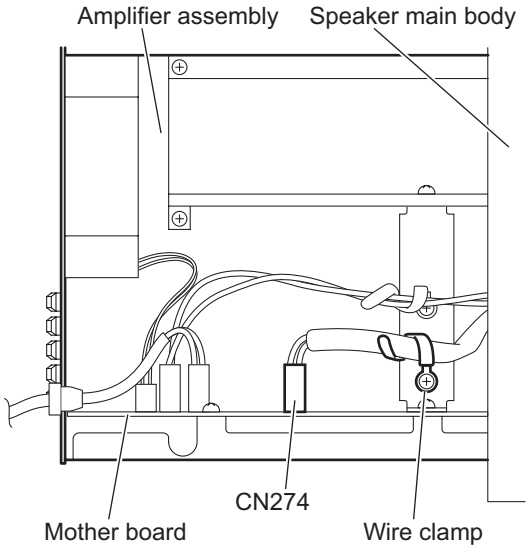


Fig.3

3.3.2 Removing the rear panel (See Figs.4 and 5)

- Prior to performing the following procedures, remove the amplifier assembly.
  (1) From the back side of the amplifier assembly, remove the four screws **C**, two screws **D** and screw **E** attaching the rear panel. (See Fig.4.)
  (2) From the top side of the amplifier assembly, take out the rear panel with fan motor, and disconnect the wire from the connector CN371 on the mother board. (See Fig.5.)

3.3.3 Removing the fan motor (See Figs.4 and 5)

- Prior to performing the following procedures, remove the amplifier assembly.
  (1) From the back side of the rear panel, remove the two screws **F** attaching the fan motor. (See Fig.4.)
  (2) From the top side of the amplifier assembly, take out the fan motor and disconnect the wire from the connector CN371 on the mother board. (See Fig.5.)

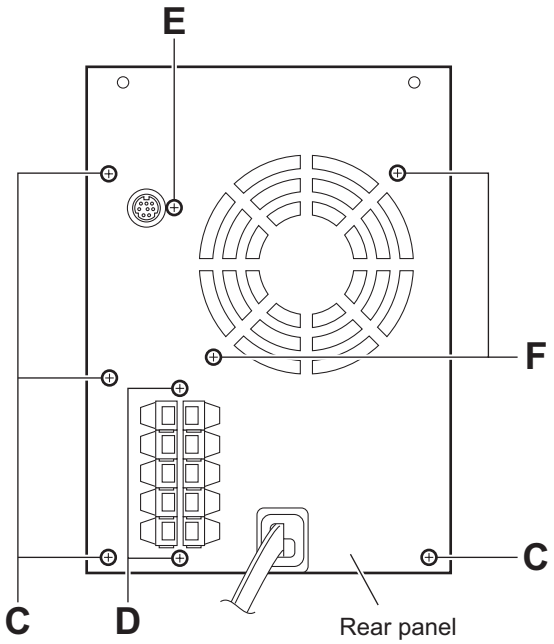


Fig.4

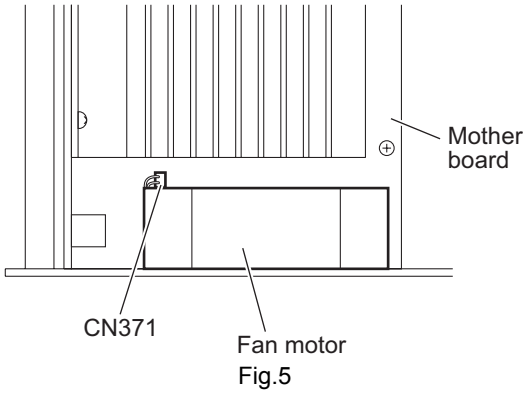


Fig.5

3.3.4 Removing the heat sink BKT (See Figs.6 and 7)

- Prior to performing the following procedures, remove the amplifier assembly and rear panel.
  (1) From the left side of the amplifier assembly, remove the wires from the wire clamp on the heat sink BKT. (See Fig.6.)
  (2) From the left side of the amplifier assembly, remove the four screws **G** attaching the heat sink BKT. (See Fig.7.)
  (3) Take out the two heat sink BKT.

Reference:

After attaching the heat sink BKT, bundle the wires by the wire clamp. (See Fig.6)

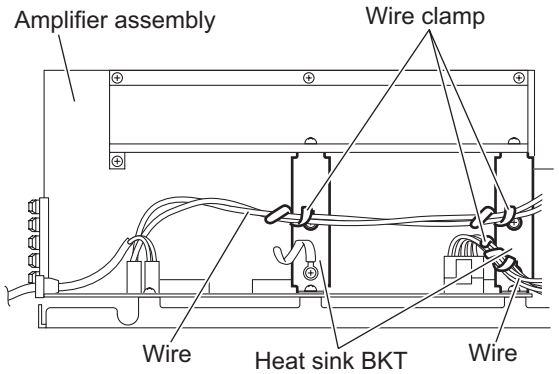


Fig.6

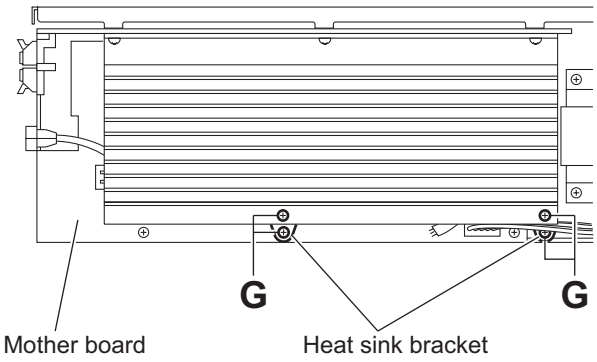


Fig.7

3.3.5 Removing the mother board (See Figs.8 and 9)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel and heat sink BKT.
  (1) From the top side of the amplifier assembly, remove the two screws **H** attaching the mother board. (See Fig.8.)
  (2) From the left side of the amplifier assembly, disconnect the wires from the connectors CN102 and CN151 on the mother board. (See Fig.9.)
  (3) Disconnect the power cord from the connector CN101 on the mother board, and take out the power cord. (See Fig.9.)
  (4) Disconnect the mother board from the connector CN271, CN272 and CN273 on the amp. board, and take out the mother board assembly from the amplifier assembly. (See Fig.9.)

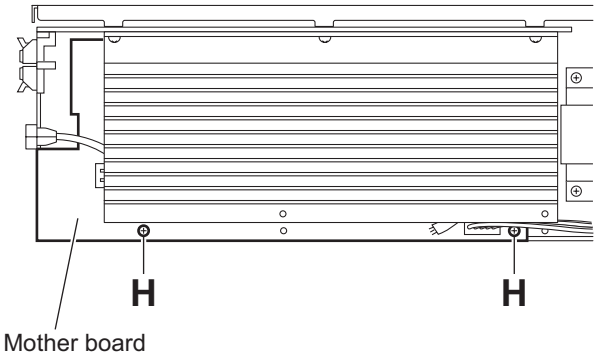


Fig.8

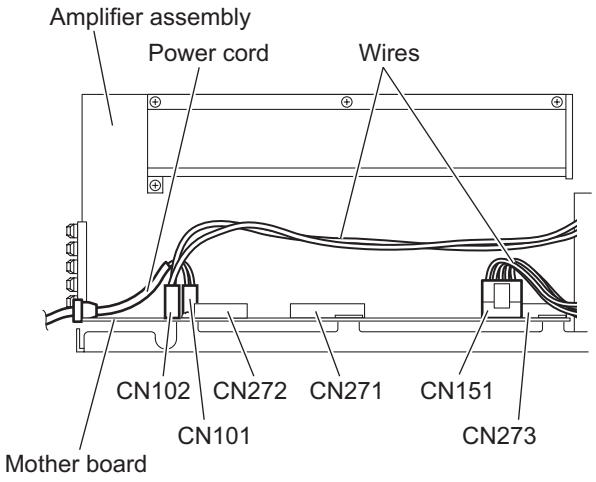


Fig.9

3.3.6 Removing the amp. board (See Fig.10)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, heat sink BKT and mother board.
  (1) From the left side of the amplifier assembly, remove the nine screws **J** attaching the amp. board.
  (2) Take out the amp. board with the heat sink.

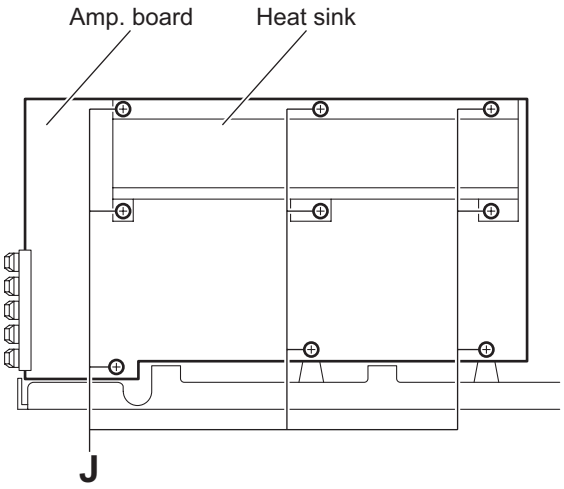


Fig.10

3.3.7 Removing the heat sink (See Figs.11 and 12)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, heat sink BKT, mother board and amp. board.
  (1) From left side of the amp. board, remove the screw **K** attaching the hold spring to the heat sink. (See Fig.11.)
  (2) Remove the four screws **L** attaching the power IC to the heat sink. (See Fig.11.)
  (3) From the reverse side of the amp. board, remove the three screws **M** attaching the heat sink to the amp. board. (See Fig.12.)
  (4) Take out the heat sink.

3.3.8 Removing the power IC (See Fig. 12)

- Prior to performing the following procedures, remove the amplifier assembly, rear panel, heat sink BKT, mother board, amp. board and heat sink.
  (1) From the reverse side of the amp. board, remove the solders from the solder points **a** on the amp. board.
  (2) Take out the power IC.

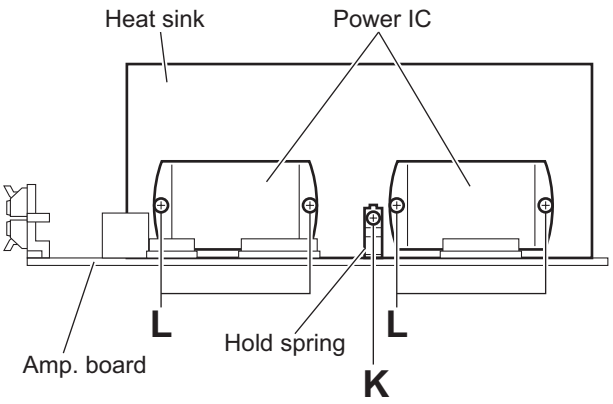


Fig.11

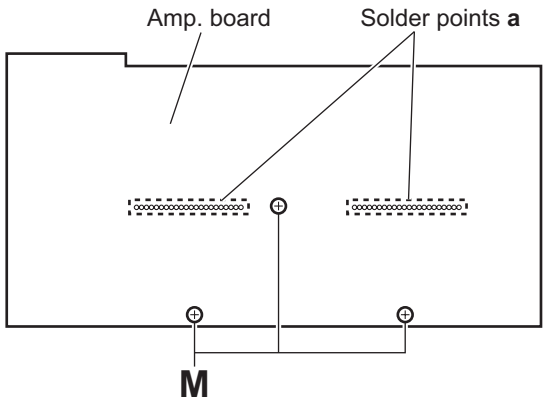


Fig.12

3.3.9 Removing the LED board (See Fig.13)

- Prior to performing the following procedures, remove the amplifier assembly and rear panel.
  (1) From the front side of the amplifier assembly, cut off the tie bands.
  (2) Remove the screw **N** attaching the LED board.
  (3) From the reverse side of the LED board, remove the solder from the solder point **b** on the LED board.

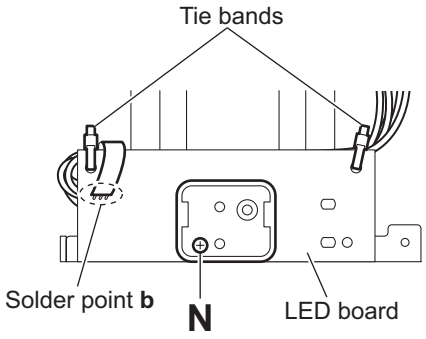


Fig.13

3.3.10 Removing the power transformer (See Figs.14 and 15)

- Prior to performing the following procedures, remove the amplifier assembly and rear panel.
  (1) From the top side of the amplifier assembly, disconnect the wires from the connectors CN102 and CN151 on the mother board. (See fig.14.)
  (2) Remove the four screws **P** attaching the power transformer, and take out the power transformer from the amplifier assembly. (See fig.15.)

Reference:

- When attaching the power transformer, attach the screws **P** with the barrier. (See fig.15)
- After connect the wires from the connectors CN102 and CN151, bundle the wire by the wire clamp. (See Fig.14.)

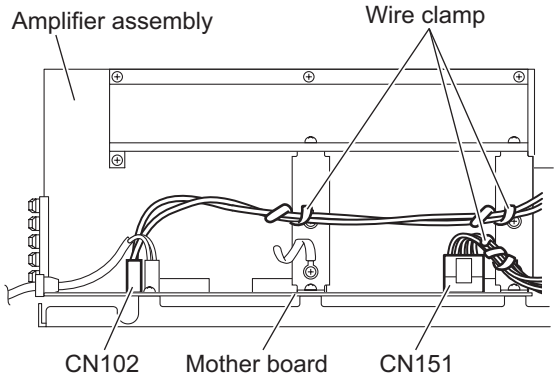


Fig.14

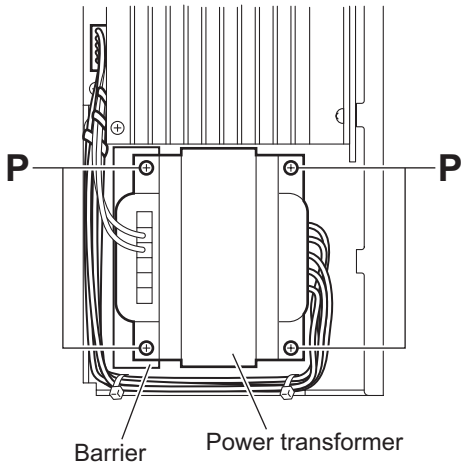


Fig.15

3.3.11 Removing the net assembly (See Figs.16 and 17)

(1) From side of the speaker main body, insert the tip of the flat-bladed screwdriver or similar tool into the space between the speaker main body and net assembly, and lift the net assembly little by little to remove. (See Fig.16.)

Note:

To prevent damaging the net assembly and speaker main body, insert cushioning plates etc. and below the tip of the flat-bladed screwdriver or similar tool.

(2) From right side of the speaker main body, release the eight joint **c**, and take out the net assembly from the speaker main body. (See Fig.17.)

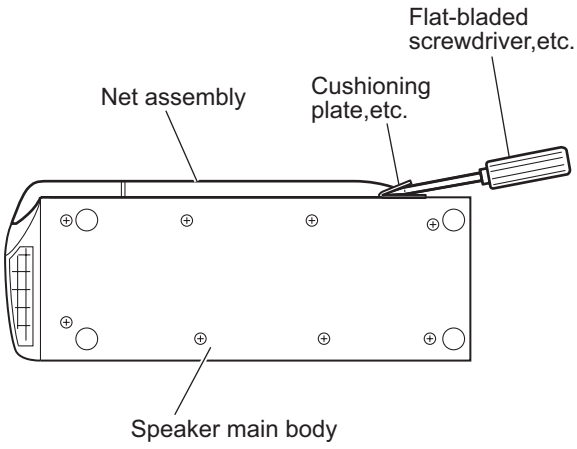


Fig.16

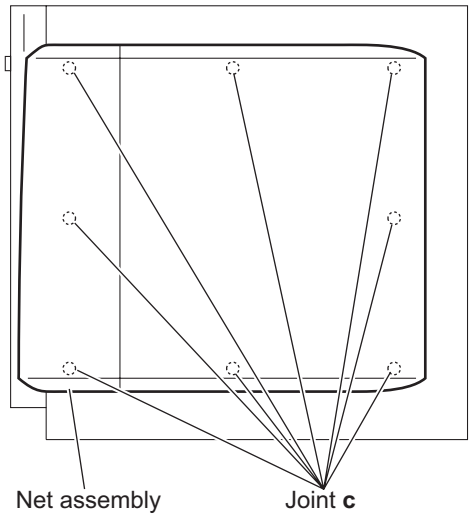


Fig.17

3.3.12 Removing the cone speaker (See Figs.18 and 19)

- Prior to performing the following procedures, remove the net assembly.
  (1) From right side of the speaker main body, remove the four screws **Q** attaching the cone speaker. (See Fig.18.)
  (2) Take out the cone speaker from the speaker main body. (See Fig.19.)
  (3) Disconnect the wires from the terminal of the cone speaker. (See Fig.19.)

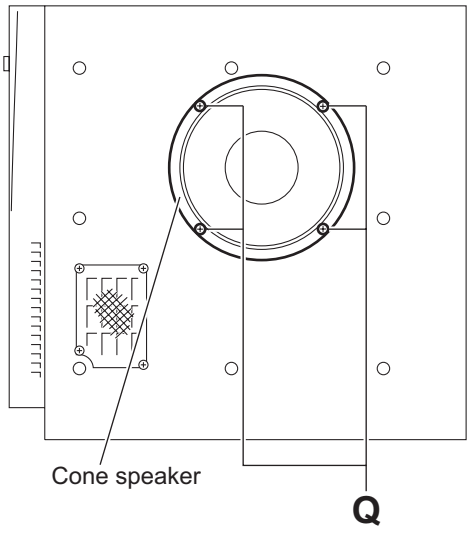


Fig.18

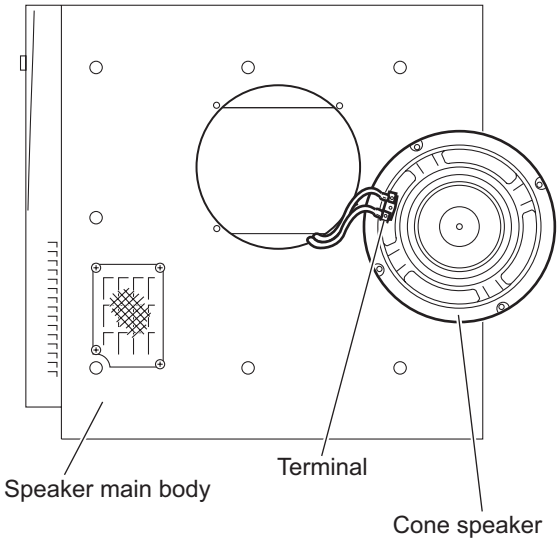


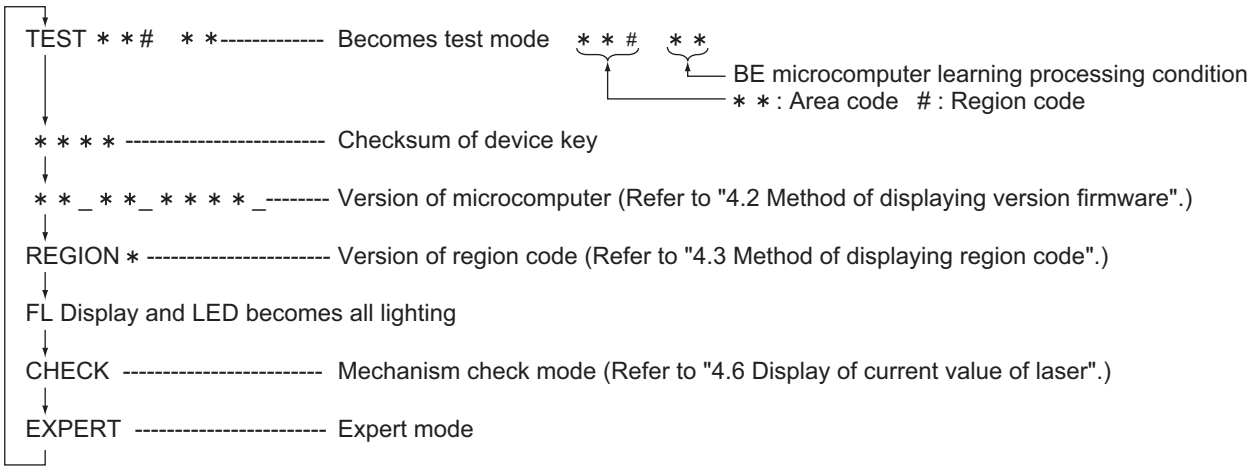
Fig.19

SECTION 4
ADJUSTMENT

4.1 Test mode setting method

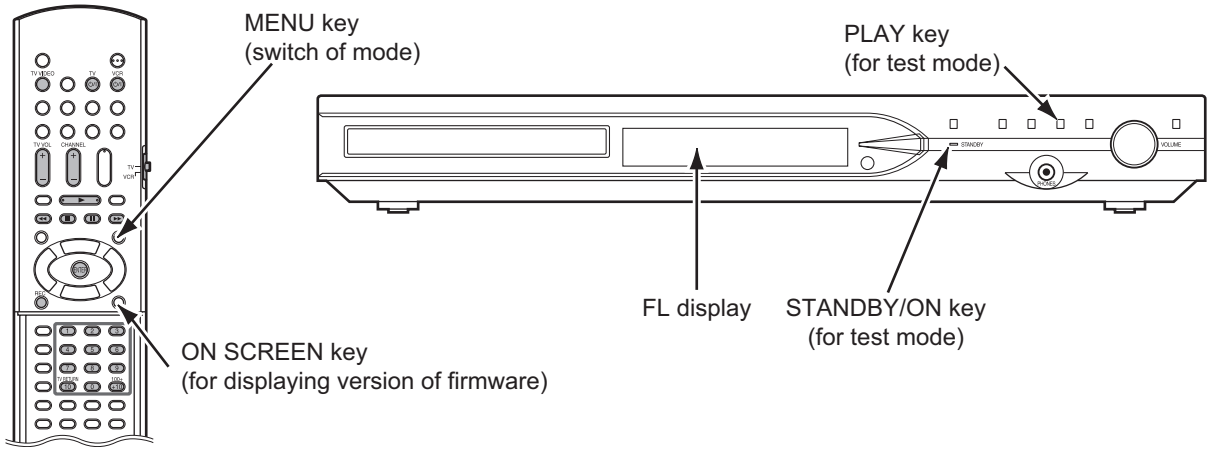
(1) Unplug the power plug.
(2) Insert power plug into outlet while pressing both "PLAY" key and "STANDBY/ON" key of the main body.
"Area code" is indicated at the upper left of display.
(3) To release test mode, press "STANDBY/ON" key of the main body.

NOTE:
Each pressing of "MENU" key of the remote controller in test mode changes the mode as follows.


TEST ＊＊# ＊＊---------- Becomes test mode
＊＊＃ ＊＊
BE microcomputer learning processing condition
＊＊: Area code #: Region code
＊＊＊＊ ---------- Checksum of device key
＊＊_＊＊_＊＊＊＊_-------- Version of microcomputer (Refer to "4.2 Method of displaying version firmware".)
REGION ＊ ---------- Version of region code (Refer to "4.3 Method of displaying region code".)
FL Display and LED becomes all lighting
CHECK ---------- Mechanism check mode (Refer to "4.6 Display of current value of laser".)
EXPERT ---------- Expert mode

4.2 Method of displaying version of firmware

(1) Set the main body at test mode.
(2) Press "MENU" key of the remote controller twice. Then, version number and alphabetical letter of the system controller and the back end are displayed in the FL display as follows.
(3) Each pressing of "ON SCREEN" key of the remote controller at the displaying version of firmware, changes the display as follows.



4.3 Method of displaying region code

(1) Set the main body at test mode.
(2) Press "MENU" key of the remote controller three times. Then, region code are displayed in the FL display.

4.4 Initialization method

Please initialize according to the following procedures in the following case:

- Just after you upgrade the firmware.
- After you confirm the symptoms that a customer points out. First Initialize, and then confirm whether the symptoms are improved or not.
- After servicing, before returning the main body to a customer. (Initialized main body should be returned to a customer.)
  (1) Set the main body at test mode.
  (2) Press "PAUSE" key of the main body.
  (3) When initialization is completed, "00" and "RDS" is displayed in the FL display.

4.5 Display of current value of laser

(1) Set the main body at test mode.
(2) Press "MENU" key of the remote controller five times. Then, FL display is displayed "CHECK".
(3) The laser current value can be switched between the value of CD and that of DVD by pressing the following key of the remote controller.

FL Display (Example)

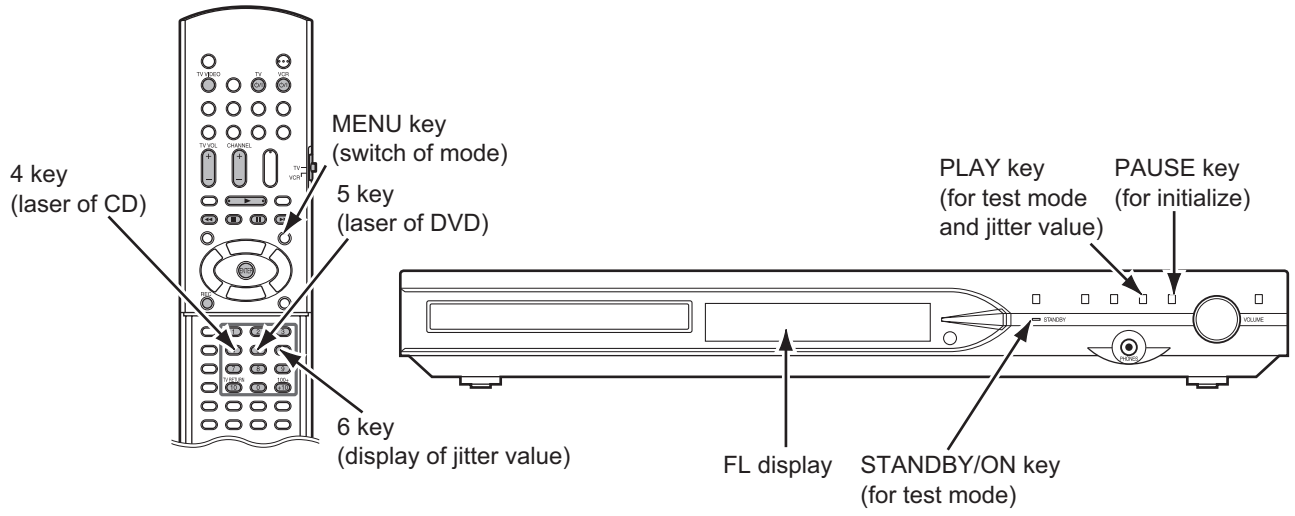
1419 0000

Remote controller "4" key --- Laser of CD
Remote controller "5" key --- Laser of DVD
Remote controller "6" key --- Jitter measurement mode

- The number shown in the FL display shows mA of current value of laser.
- The first two numbers ("14" in "1419") shows current value of laser at the time of adjustment after the latest all-initialization, 14mA in this example.
- The last two numbers ("19" in "1419") shows the present current value of laser, 19mA in this example.
- The first two numbers ("14" in "1419") usually shows current value of laser at the time of shipment, so you can see how the product has been deteriorated by comparing the first two numbers ("14" in "1419") and the last two numbers ("19" in "1419").

CD and DVD:
The laser current value of 80mA or less in normal. The laser current value of over 81mA is not normal. Laser diode of the pickup has been deteriorated.

- To return to test mode, press "STOP" key of the main body.



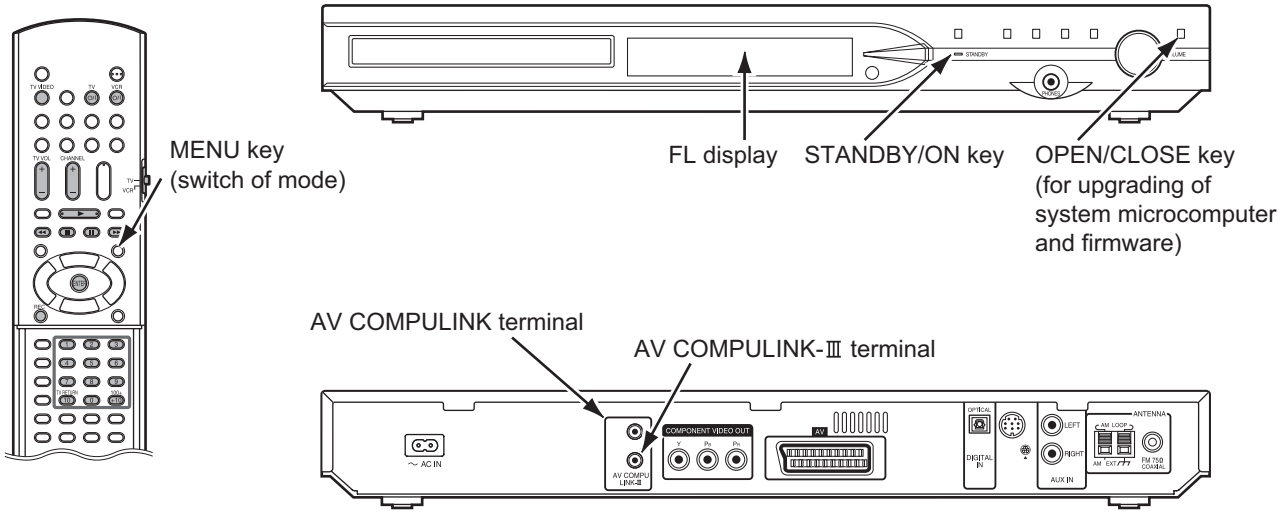
4.6 Upgrading of firmware (DVD UPGRADE)

The latest firmware for upgrading is updated in "Optical disc CSG" page in JS-net. At the time of service, compare the version of the product and the latest version, and upgrade the old version into the latest version.

(1) Press "STANDBY/ON" key of the main body to turn it on.
(2) Push "OPEN/CLOSE" key of the main body, and insert the upgrade disc in the tray.
(3) When reading the data of the disc, the OSD screen is displayed "VERSION UP DISC", "PROGRAM & DESTINATION MODE" and "READING..".
(4) When the screen changes from "READING.." to "WRITING..", upgrading starts.
(5) After writing the data of the disc, the screen is displayed "OPEN".
(6) Take out the disc, and press "STANDBY/ON" key of the main body.
(7) When the stand-by indicator is lighted, upgrading is completed.
(8) Set the main body at test mode, and confirm the version of the firmware. (Refer to "4.2 Method of displaying version firmware".)

4.7 Upgrading of system microcomputer (ROM CORRECTION)

(1) Press "STANDBY/ON" key of the main body to turn it on.
(2) Push "OPEN/CLOSE" key of the main body, and insert the upgrade disc in the tray.
(3) When reading the data of the disc, the OSD screen is displayed "VERSION UP DISC", "SYSCON UPG MODE" and "READING..".
(4) When the screen changes from "READING.." to "WRITING..", system data is written.
(5) After writing the data of the disc, the FL display of the main body is displayed "COMPLETE".
(6) Take out the disc, and press "STANDBY/ON" key of the main body.
(7) When the stand-by indicator is lighted, upgrading is completed.
(8) Set the main body at test mode, and confirm the version of the system microcomputer. (Refer to "4.2 Method of displaying version firmware".)



4.8 Compulsive NTSC mode

(1) Unplug the power plug.
(2) Insert power plug into outlet while pressing both "PAUSE" key and "STANDBY/ON" key of the main body.
(3) The compulsive NTSC mode is set up.

NOTE:
In E series, Y/C mode is set up.

(4) Unless the mode is canceled, regardless of input of "NTSEL" switch, it starts only at the time of the first power-on.
(5) When power-off is carried out, the mode is canceled.

4.9 Locking disc tray

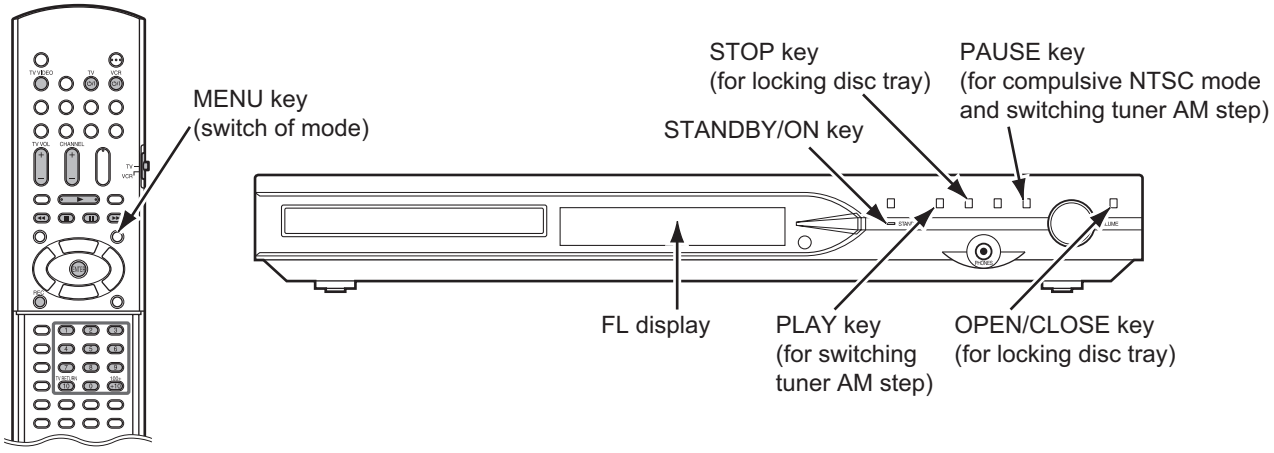
(1) Unplug the power plug.
(2) Insert power plug into outlet while pressing both "STOP" key and "OPEN/CLOSE" key of the main body.
(3) Then, the FL display of main body is displayed "LOCKED" and the disc tray is locked.
(4) For unlock the tray, press both "STOP" key and "OPEN/CLOSE" key.
(5) Then, the FL display of main body is displayed "UNLOCKED" and the tray is unlocked.

NOTE:
Unless unlocking disc tray, it does not process to input "OPEN/CLOSE" key.

4.10 Switching tuner AM step (U series only)

- Switching 9kHz
  (1) Press both "STOP" key and "PLAY" key of the main body.
- Switching 10kHz
  (1) Press both "STOP" key and "PAUSE" key of main body.

NOTE:
Switching tuner AM step is effective only when source is AM.



SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB236)

Printed in Japan
WPC

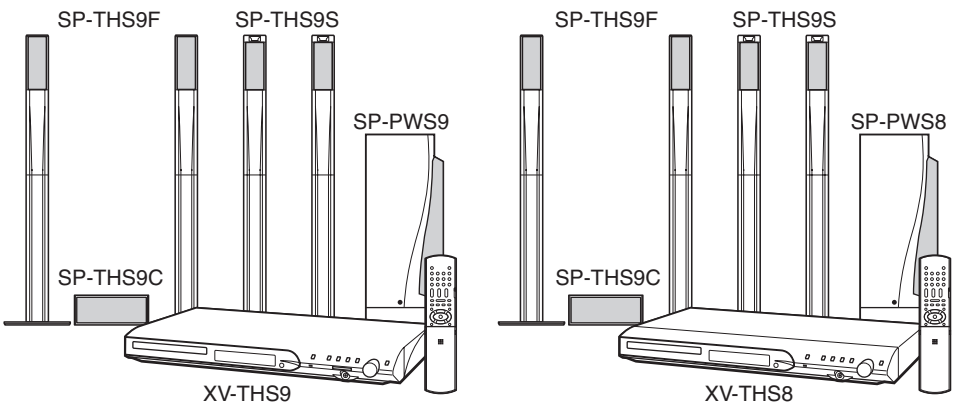
JVC

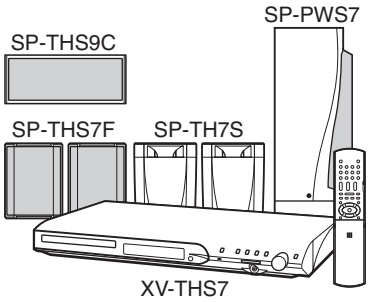
SCHEMATIC DIAGRAMS

DVD DIGITAL CINEMA SYSTEM

TH-S9, TH-S8
TH-S7

CD-ROM No.SML200406





TH-S9
Area suffix
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

TH-S8
Area suffix
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

TH-S7
Area suffix
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

	TH-S9	TH-S8	TH-S7
SD card	○	×	○

R·D·S DVD AUDIO/VIDEO COMPACT disc SUPER VIDEO DOLBY DIGITAL PRO LOGIC II DIGITAL dts SURROUND SD Digital Direct Progressive Scan

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2-2
Printed circuit boards ---------- 2-14 to 18

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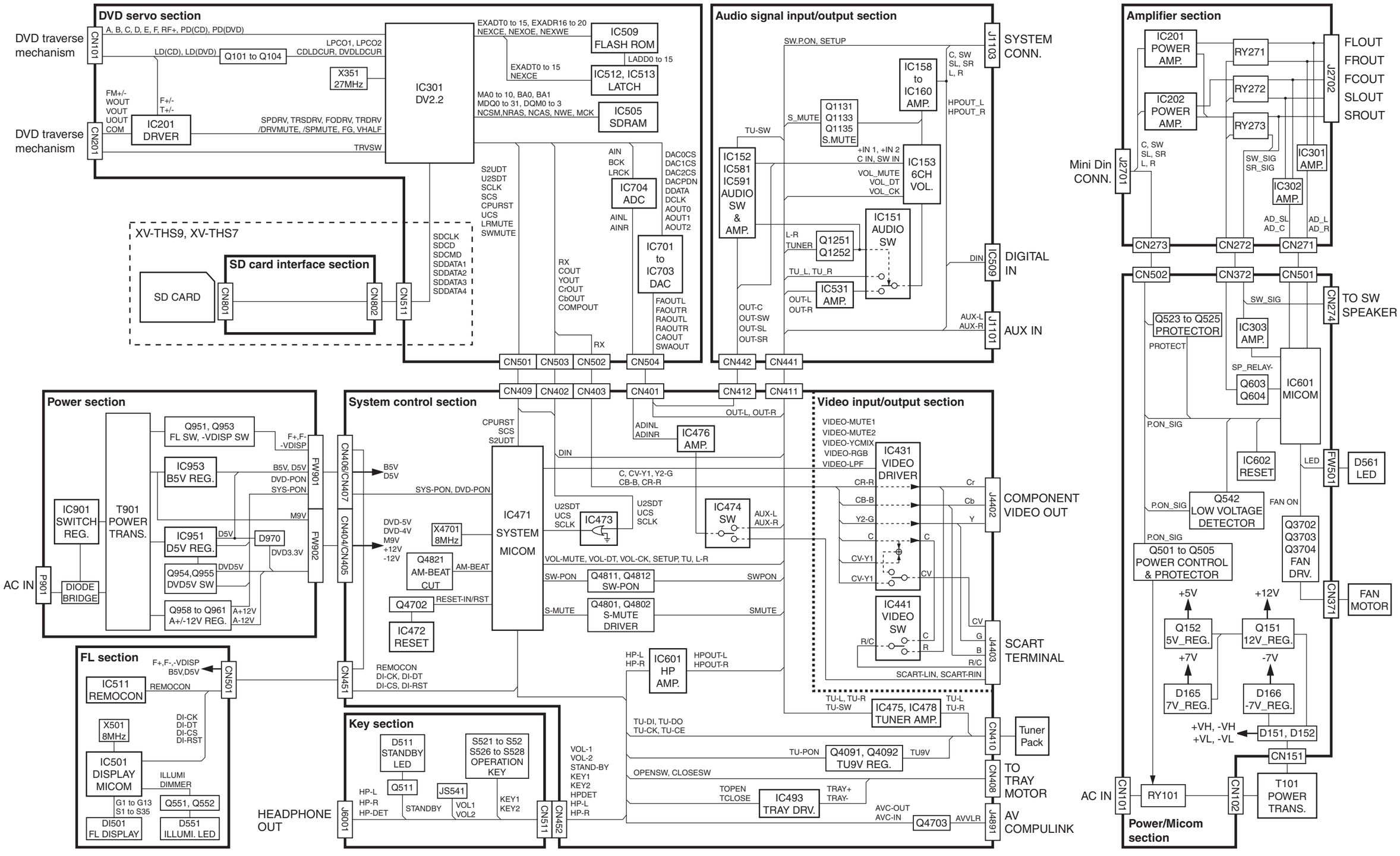
No.MB236SCH
2004/6

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.
(This regulation does not correspond to J and C version.)

Block diagram

<Main body section>

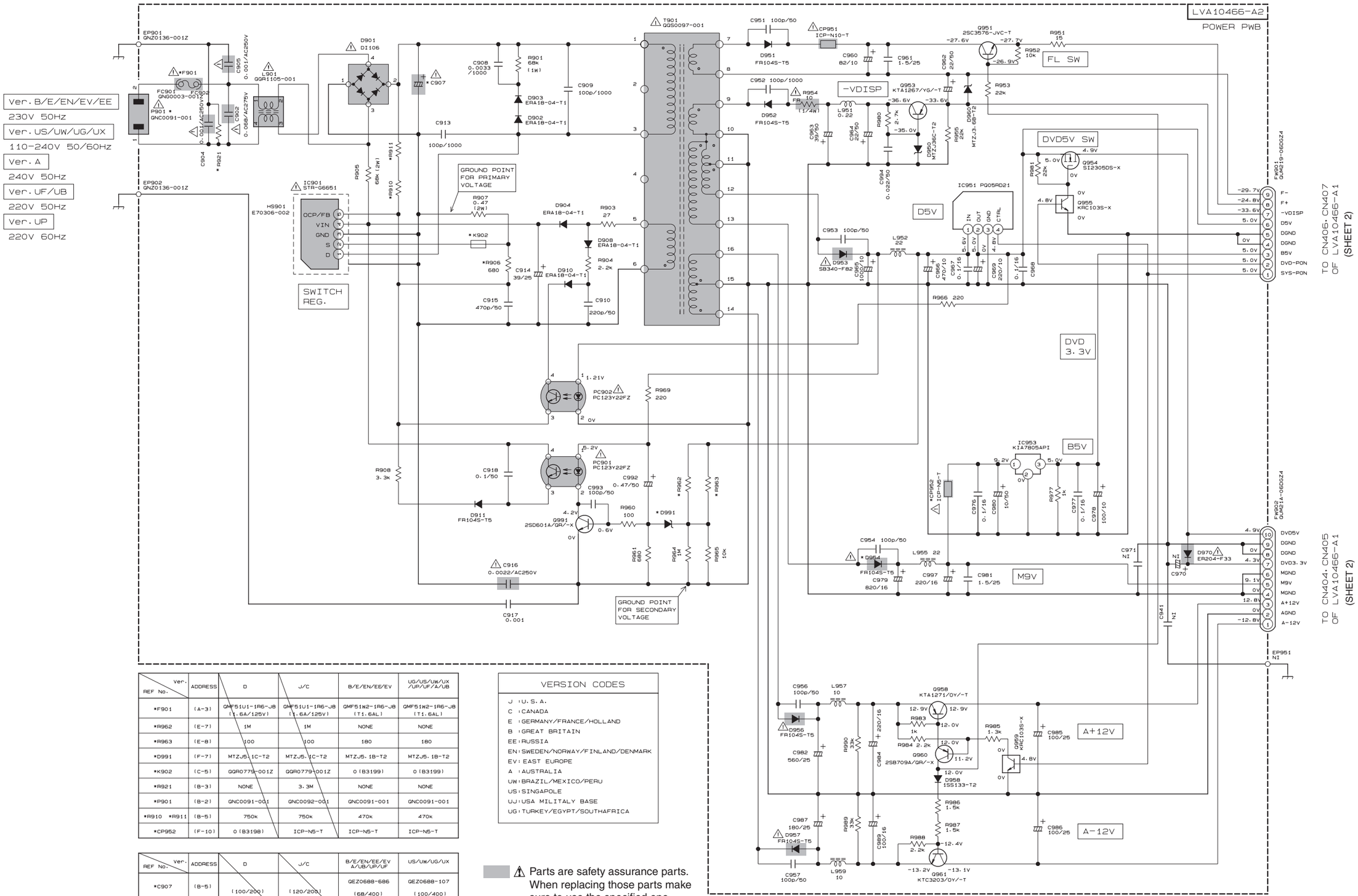
<Subwoofer section>



Standard schematic diagrams

<Main body section>

■ Power section



Ver. / REF No.	ADDRESS	D	J/C	B/E/EN/EE/EV	UG/US/UW/UX /UF/UF/A/UB
*F901	(A-3)	QMF51U1-1R6-JB (1.6A/125V)	QMF51U1-1R6-JB (1.6A/125V)	QMF51W2-1R6-JB (T1.6AL)	QMF51W2-1R6-JB (T1.6AL)
*R962	(E-7)	1M	1M	NONE	NONE
*R963	(E-8)	100	100	180	180
*D991	(F-7)	MTZJ5.1C-T2	MTZJ5.1C-T2	MTZJ5.1B-T2	MTZJ5.1B-T2
*K902	(C-5)	QQR0779-001Z	QQR0779-001Z	0 (B3199)	0 (B3199)
*R921	(B-3)	NONE	3.3M	NONE	NONE
*P901	(B-2)	QNC0091-001	QNC0092-001	QNC0091-001	QNC0091-001
*R910 *R911	(B-5)	750k	750k	470k	470k
*CP952	(F-10)	0 (B3198)	ICP-N5-T	ICP-N5-T	ICP-N5-T

Ver. / REF No.	ADDRESS	D	J/C	B/E/EN/EE/EV A/UB/UF/UF	US/UW/UG/UX
*C907	(B-5)	(100/200)	(120/200)	QEZ0688-686 (68/400)	QEZ0688-107 (100/400)
*D954	(F-9)	FR104S-T5	FR104S-T5	FR104S-T5	FR104S-T5

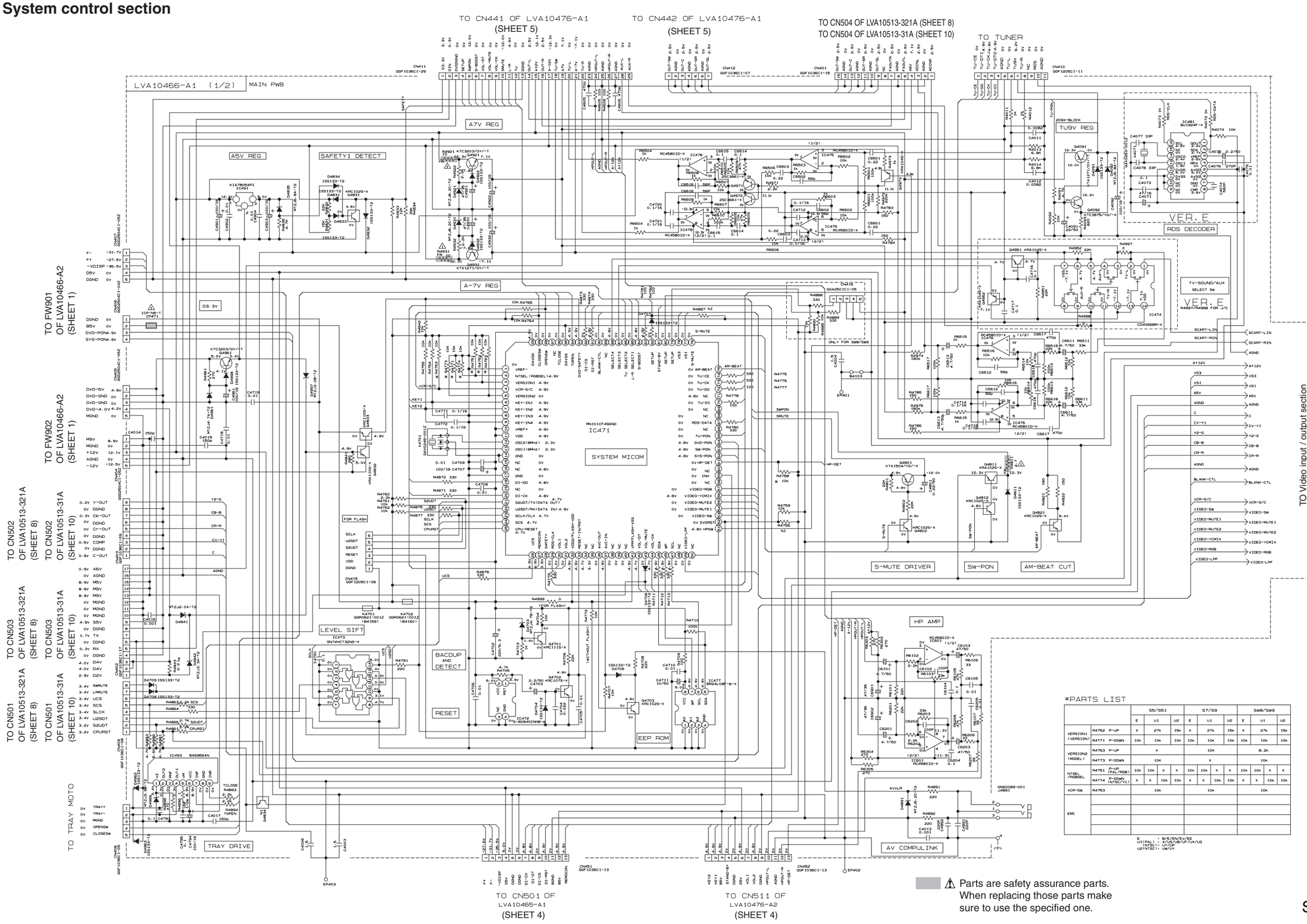
VERSION CODES

J :U.S.A.
C :CANADA
E :GERMANY/FRANCE/HOLLAND
B :GREAT BRITAIN
EE:RUSSIA
EN:SWEDEN/NORWAY/FINLAND/DENMARK
EV:EAST EUROPE
A :AUSTRALIA
UW:BRAZIL/MEXICO/PERU
US:SINGAPOLE
UJ:USA MILITALY BASE
UG:TURKEY/EGYPT/SOUTHAFRICA

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

SHEET 1

■ System control section



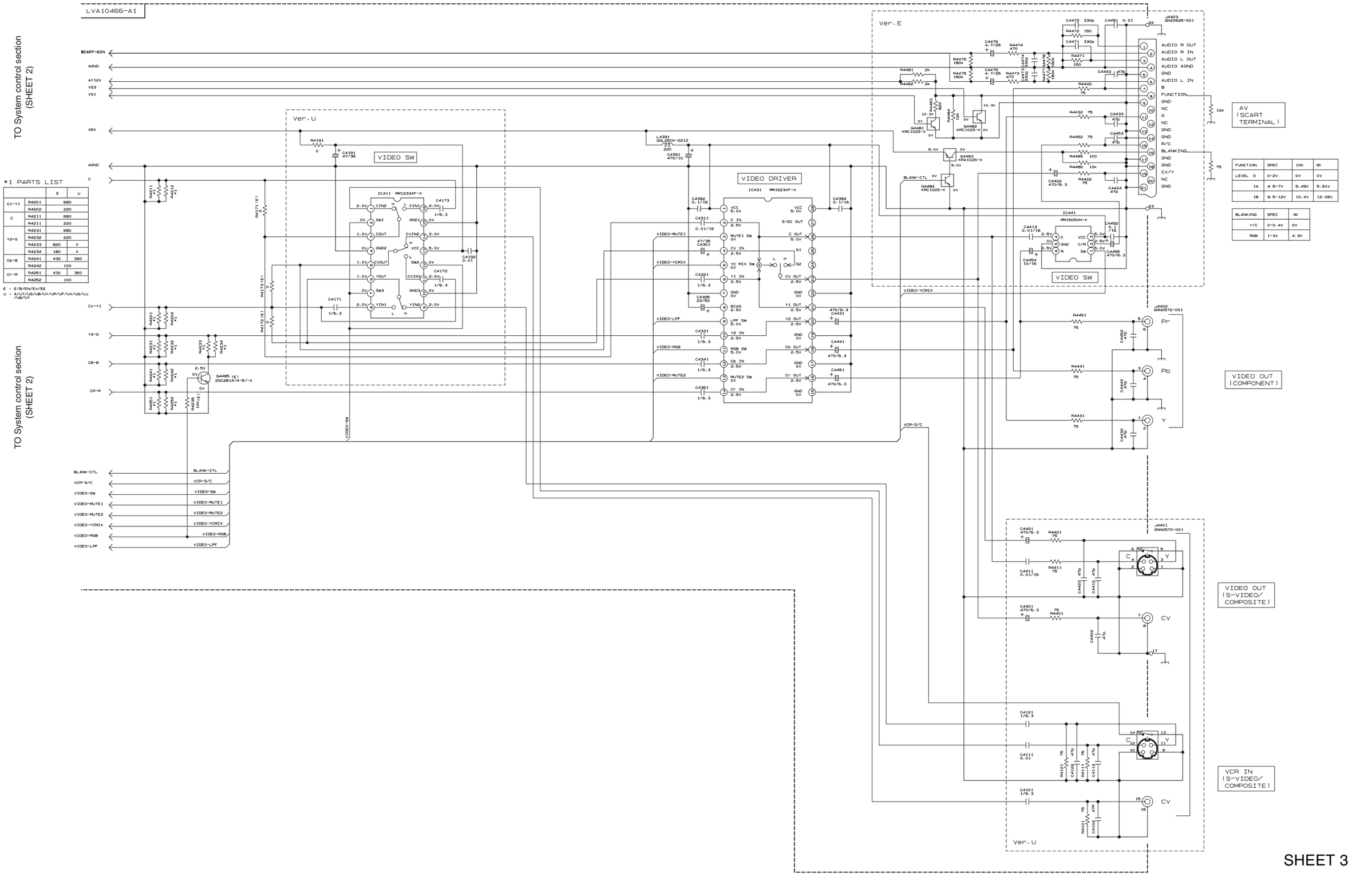
*PARTS LIST

		S5/S51			S7/S9			S8B/SW9		
		E	U1	U2	E	U1	U2	E	U1	U2
VERSION1 (VERSION)	R4752 P-UP	x	27k	15k	x	27k	15k	x	27k	15k
	R4771 P-DOWN	10k	10k	10k	10k	10k	10k	10k	10k	10k
VERSION2 (MODEL)	R4763 P-UP	x			10K			8.2k		
	R4773 P-DOWN	10K			x			10k		
NTSEL /RGBSEL	R4751 P-UP (PAL/RGB)	10k	10k	x	x	10k	10k	x	x	10k	10k	x	x
	R4774 P-DOWN (NTSC/YC)	x	x	10k	10k	x	x	10k	10k	x	x	10k	10k
VCR-SW	R4753	10k			10k			10k		
EMC										

E : S/E/EN/EV/EE
U1(PAL) : A/US/UB/UF/UX/UG
U2(NTSC) : UT/UP
U3 : UW/UY

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ Video input / output section



*1 PARTS LIST

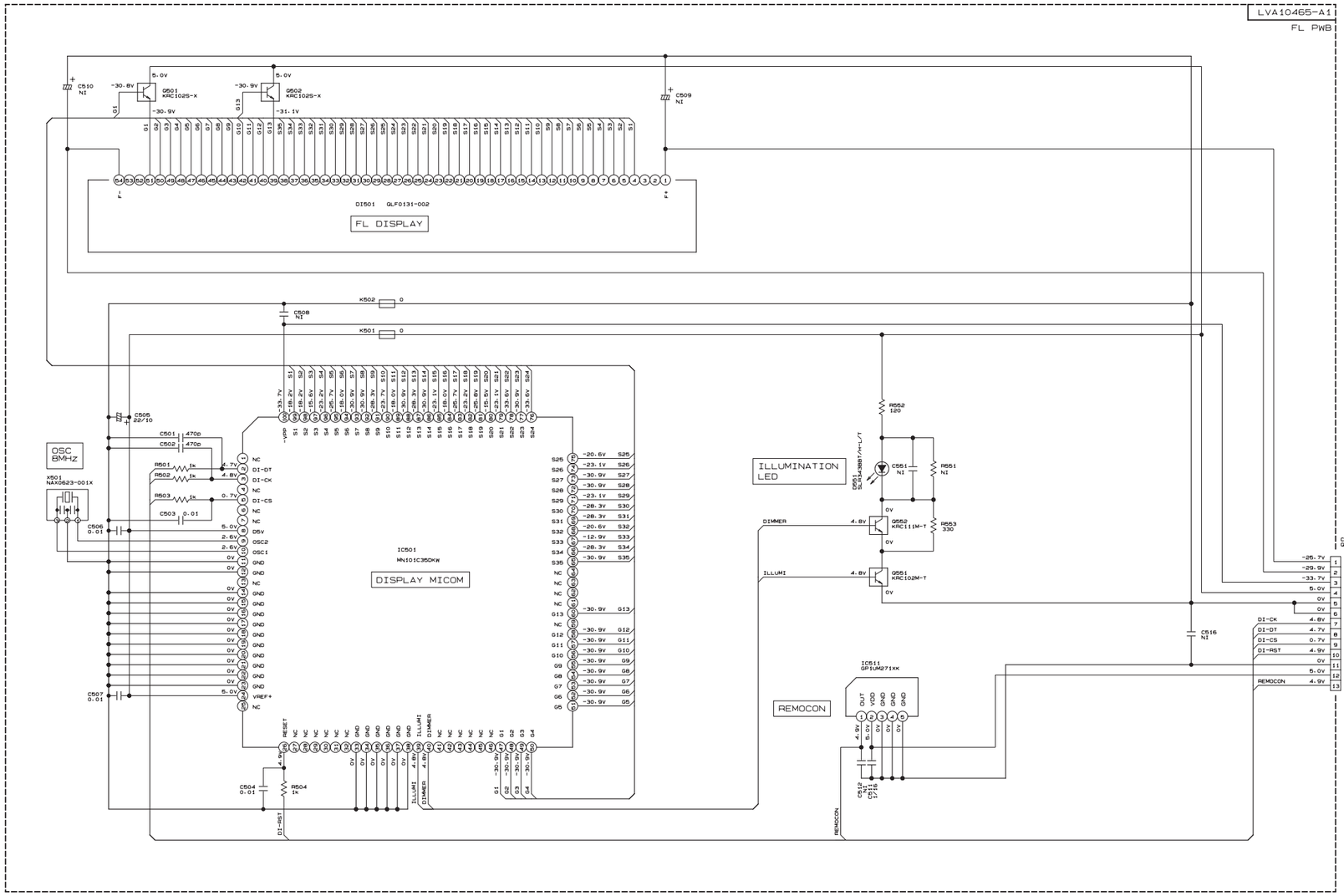
		E	U
CV-Y1	R4201	680	
	R4202	220	
C	R4211	680	
	R4211	220	
Y2-G	R4231	680	
	R4232	220	
	R4233	820	x
	R4234	180	x
CB-B	R4241	430	360
	R4242	100	
CR-R	R4251	430	360
	R4252	100	

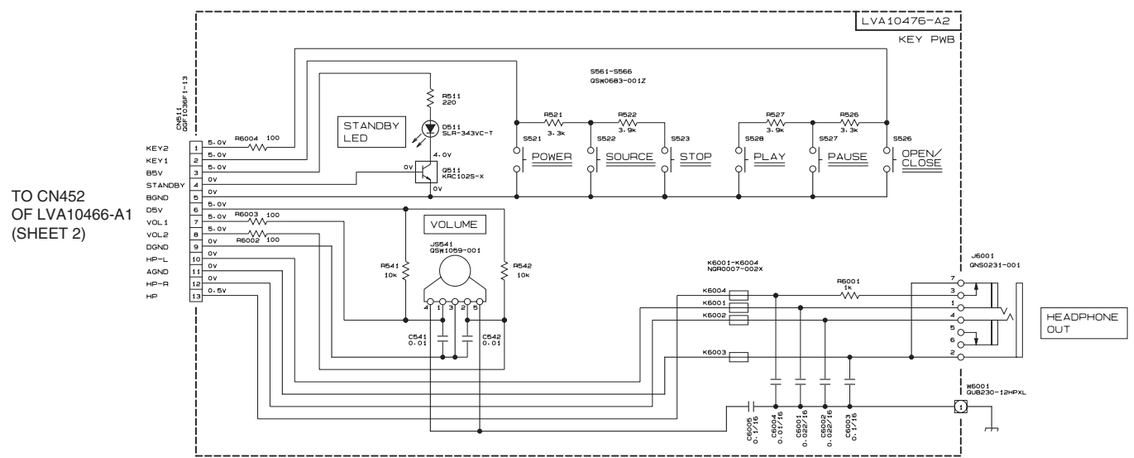
E : E/B/EN/EV/EE
U : A/UT/US/UB/UY/UP/UF/UX/UG/UJ /UW/UY

FUNCTION	SPEC	10K	OPEN
LEVEL 0	0-2V	0V	0V
1A	4.5-7V	5.49V	5.91V
1B	9.5-12V	10.4V	12.08V

BLANKING	SPEC	OPEN
Y/C	0-0.4V	0V
RGB	1-3V	4.9V

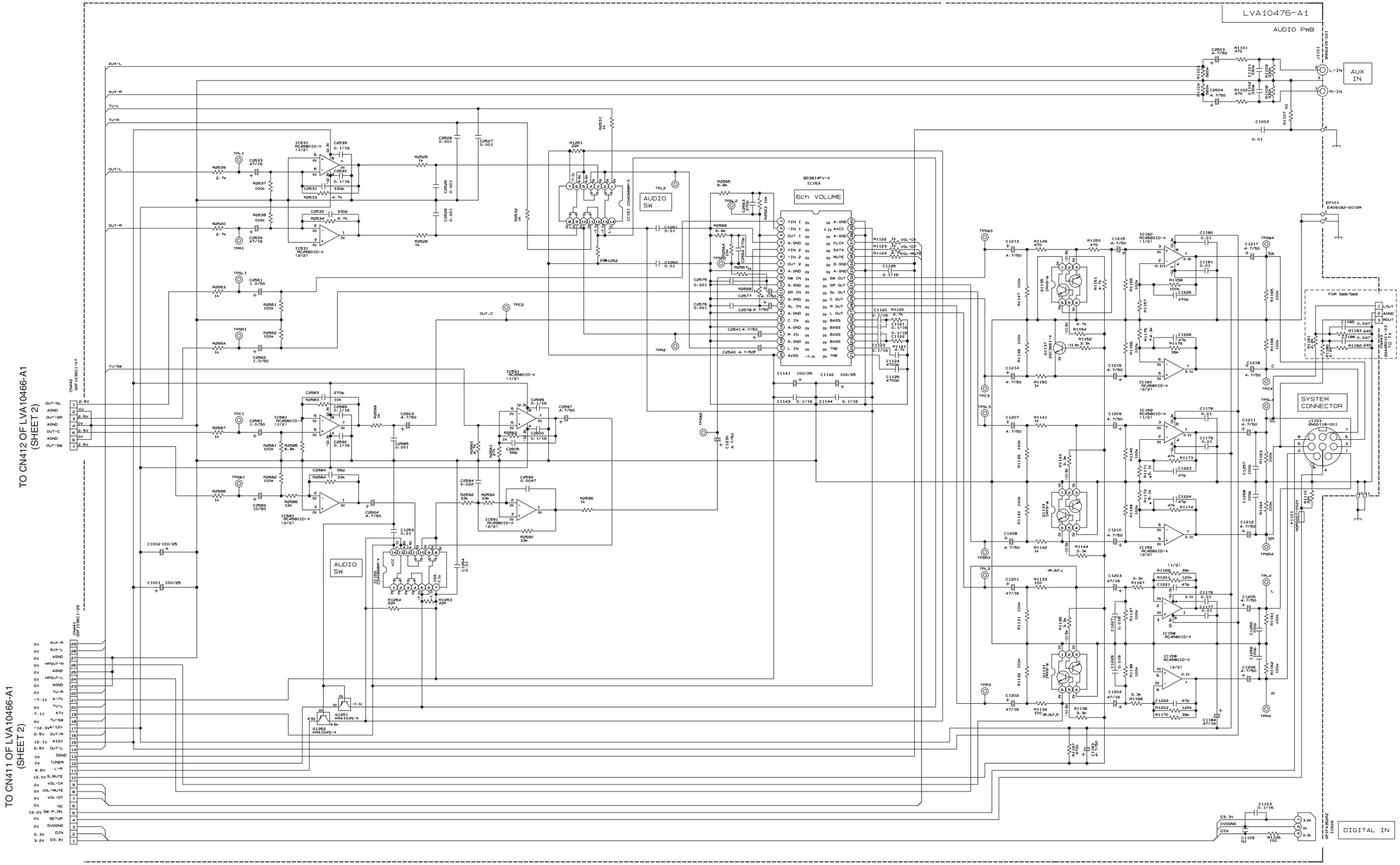
■ FL and Key section





SHEET 4

■ Audio signal input / output section

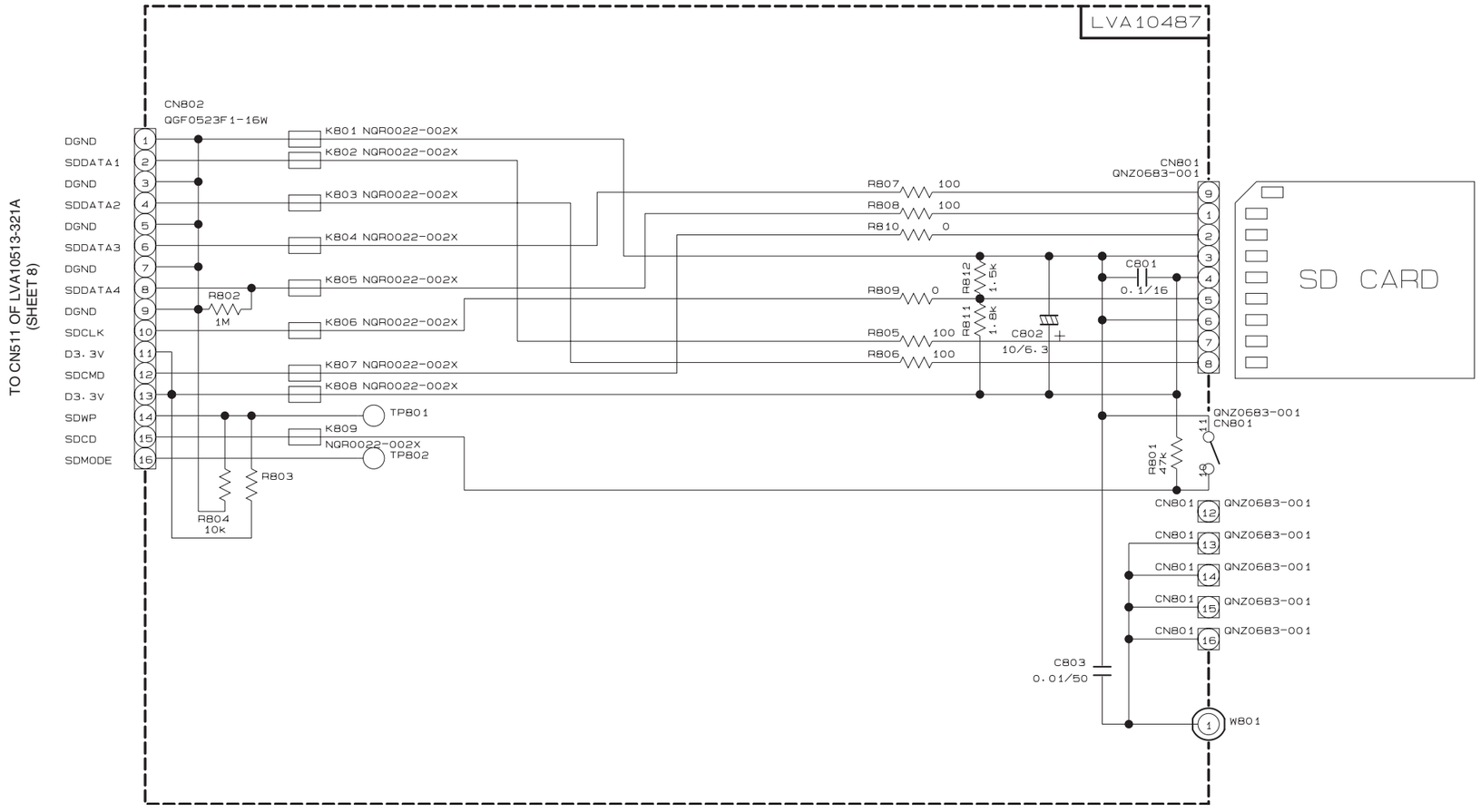


*

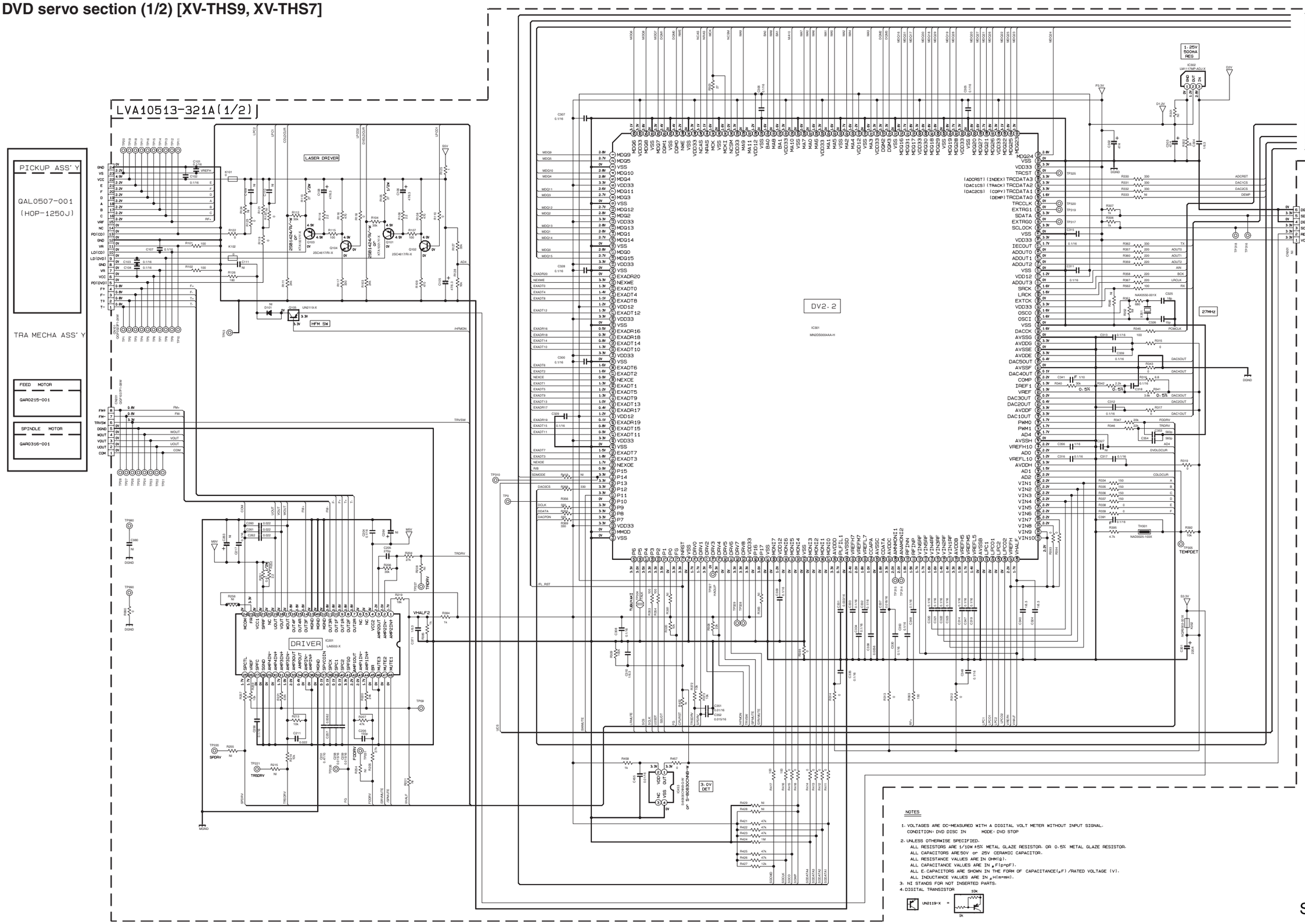
	R1175	R1171 R1172
XV-THS5/S51/SW8	4.3k	3.3k
XV-THS7	3.3k	3.3k
XV-THS9/SW9	4.3k	5.1k

SHEET 5

■ SD card interface section [XV-THS9, XV-THS7]

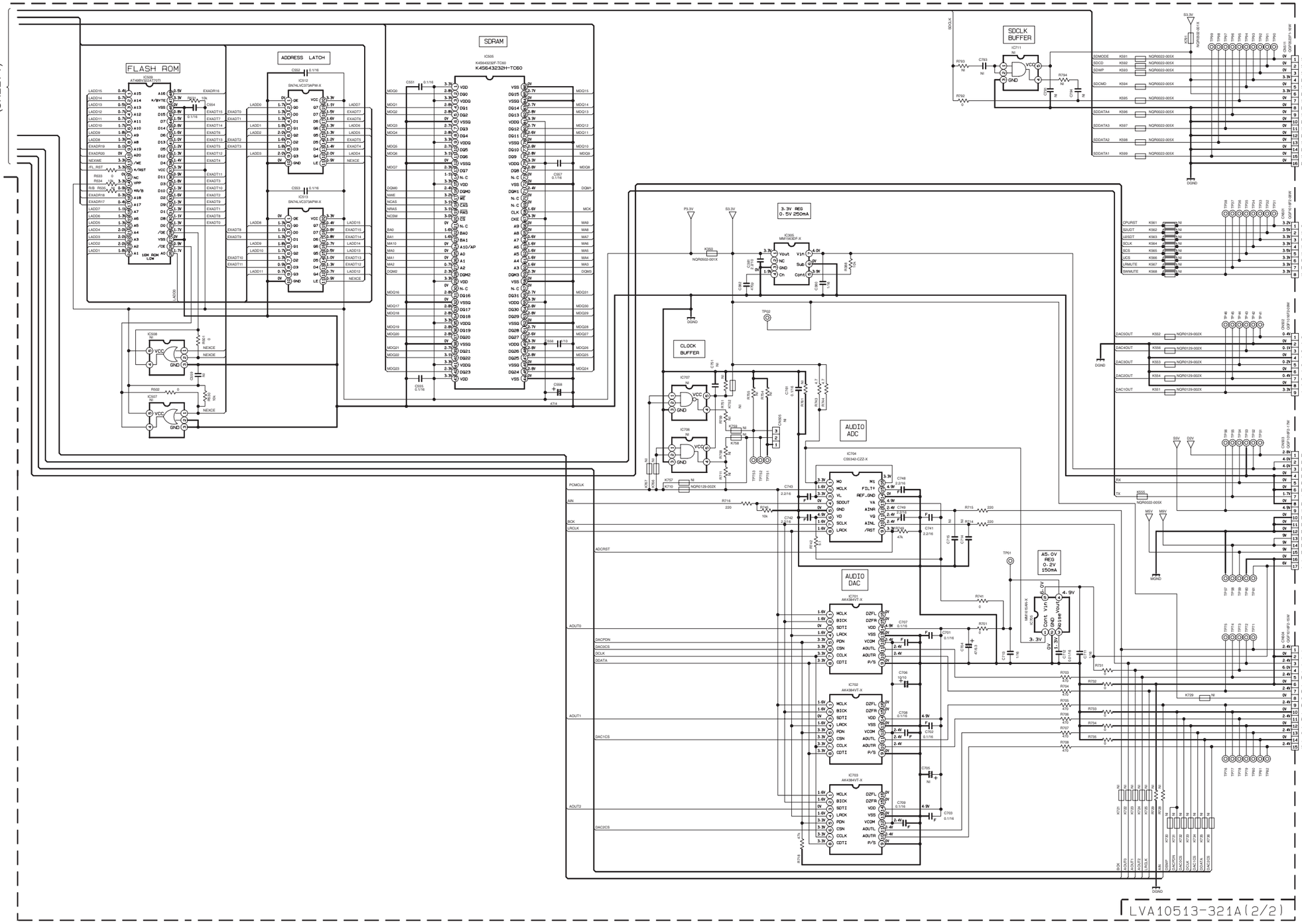


■ DVD servo section (1/2) [XV-THS9, XV-THS7]



SHEET 7

■ DVD servo section (2/2) [XV-THS9, XV-THS7]

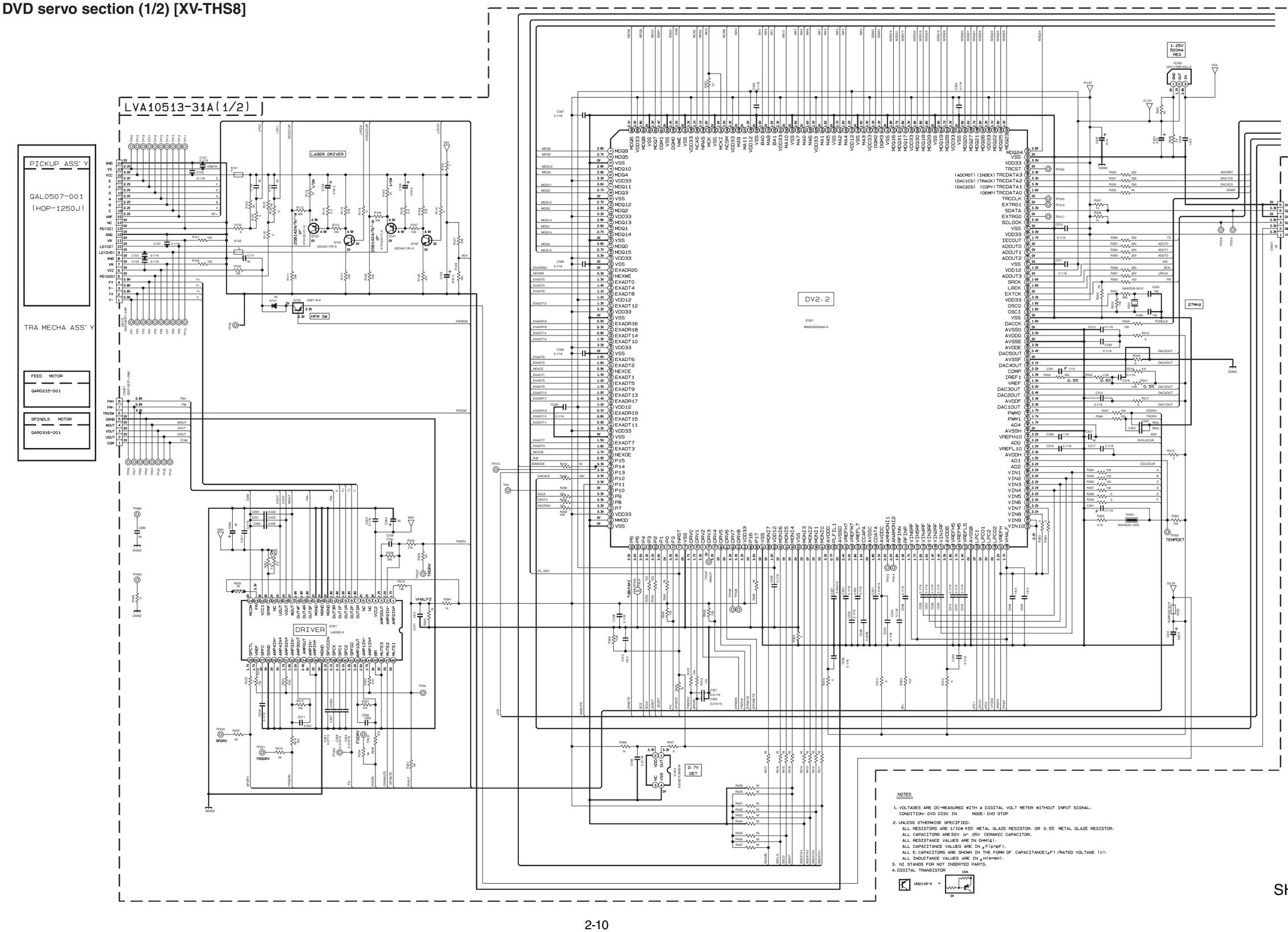


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION:DVD DISC IN MODE:DVD STOP

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V or 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(pmF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.

■ DVD servo section (1/2) [XV-THS8]



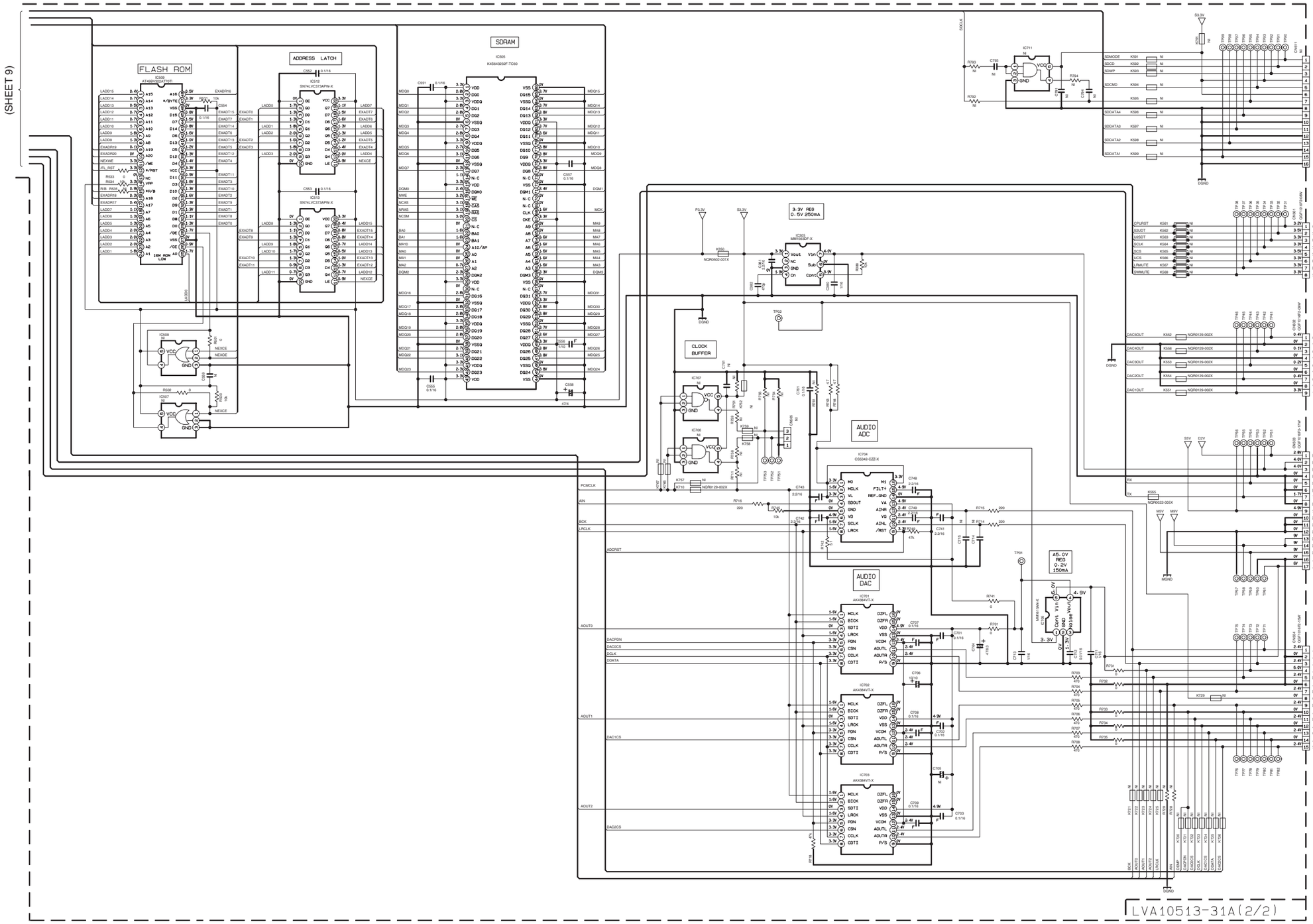
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: DVD DISC IN MODE: DVD STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V or 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN Ohm(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR

UN2119-X = 10k / 1k

■ DVD servo section (2/2) [XV-THS8]

(SHEET 9)



NOTES

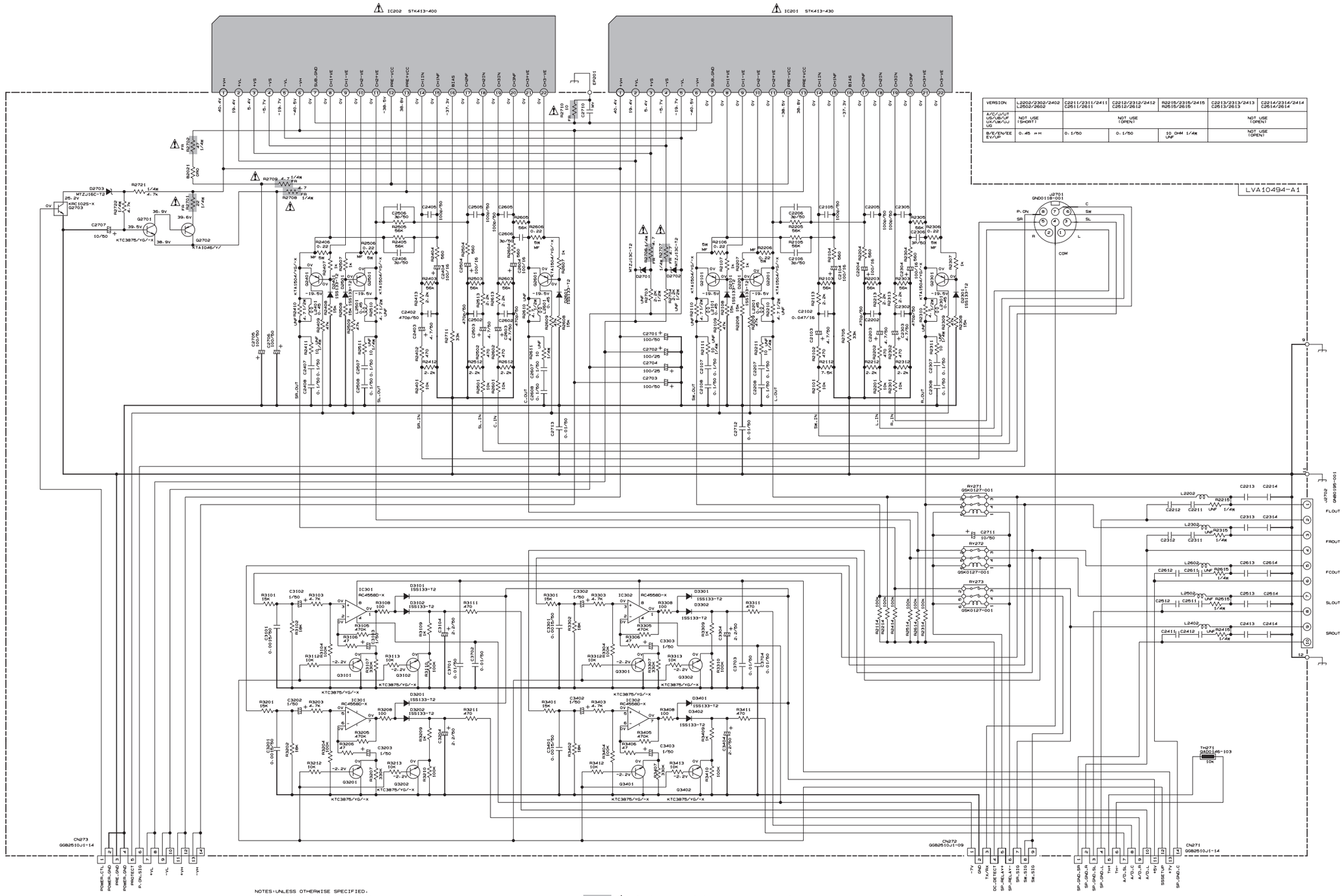
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION:DVD DISC IN MODE:DVD STOP

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V or 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE/μF/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.

SHEET 10

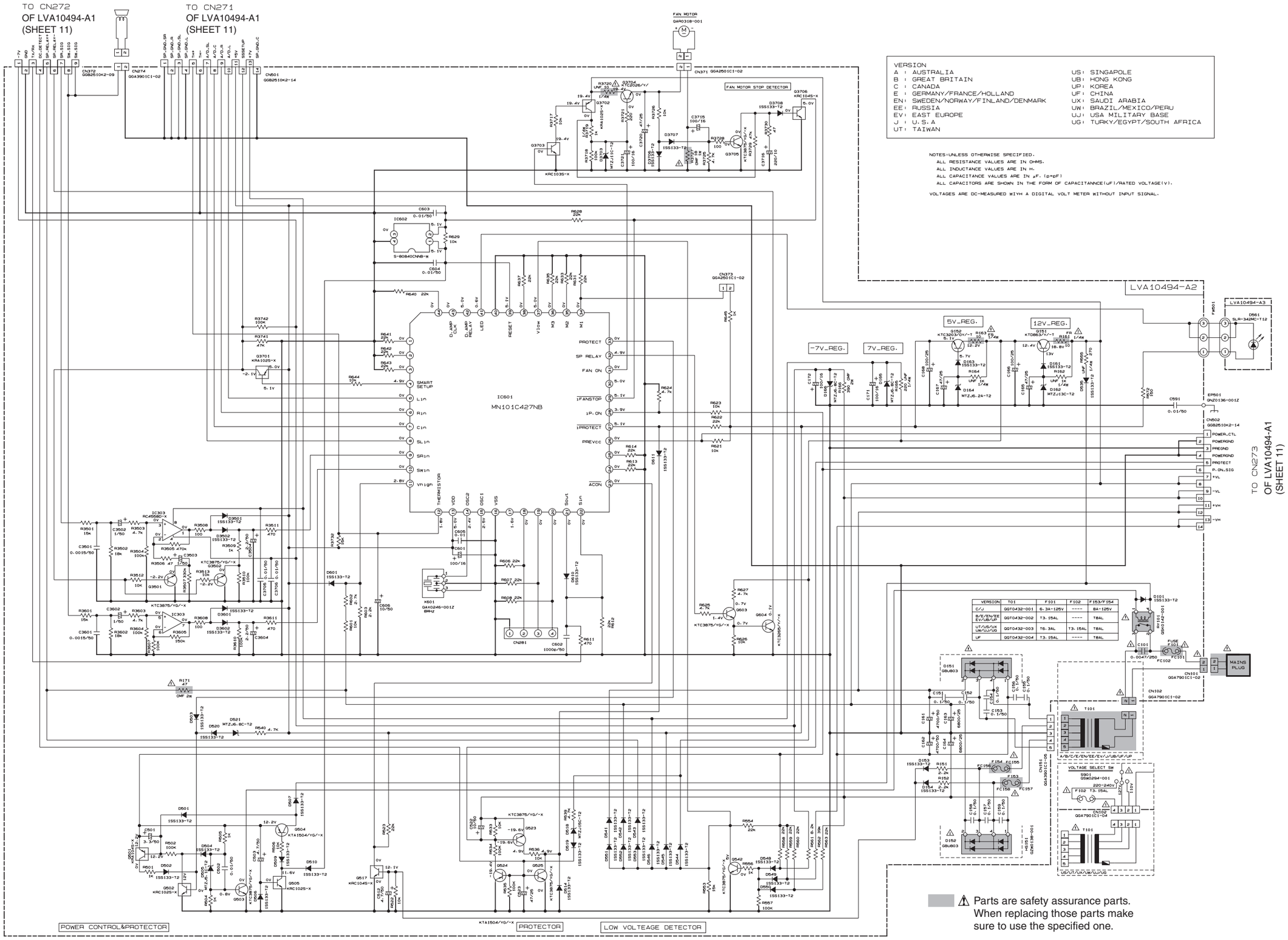
<Subwoofer section>

■ Amplifier section



VERSION	L2202/2302/2402 L2502/2602	C2211/2311/2411 C2511/2611	C2212/2312/2412 C2512/2612	R2215/2315/2415 R2515/2615	C2213/2313/2413 C2513/2613	C2214/2314/2414 C2514/2614
A/C/J/UT US/UB/UF UX/UW/UJ UG	NOT USE (SHORT)	NOT USE (OPEN)			NOT USE (OPEN)	
B/E/EN/EE E4/UF	0.45 μH	0.1/50	0.1/50	10 OHM 1/4W UNF	NOT USE (OPEN)	

■ Power / Micom section



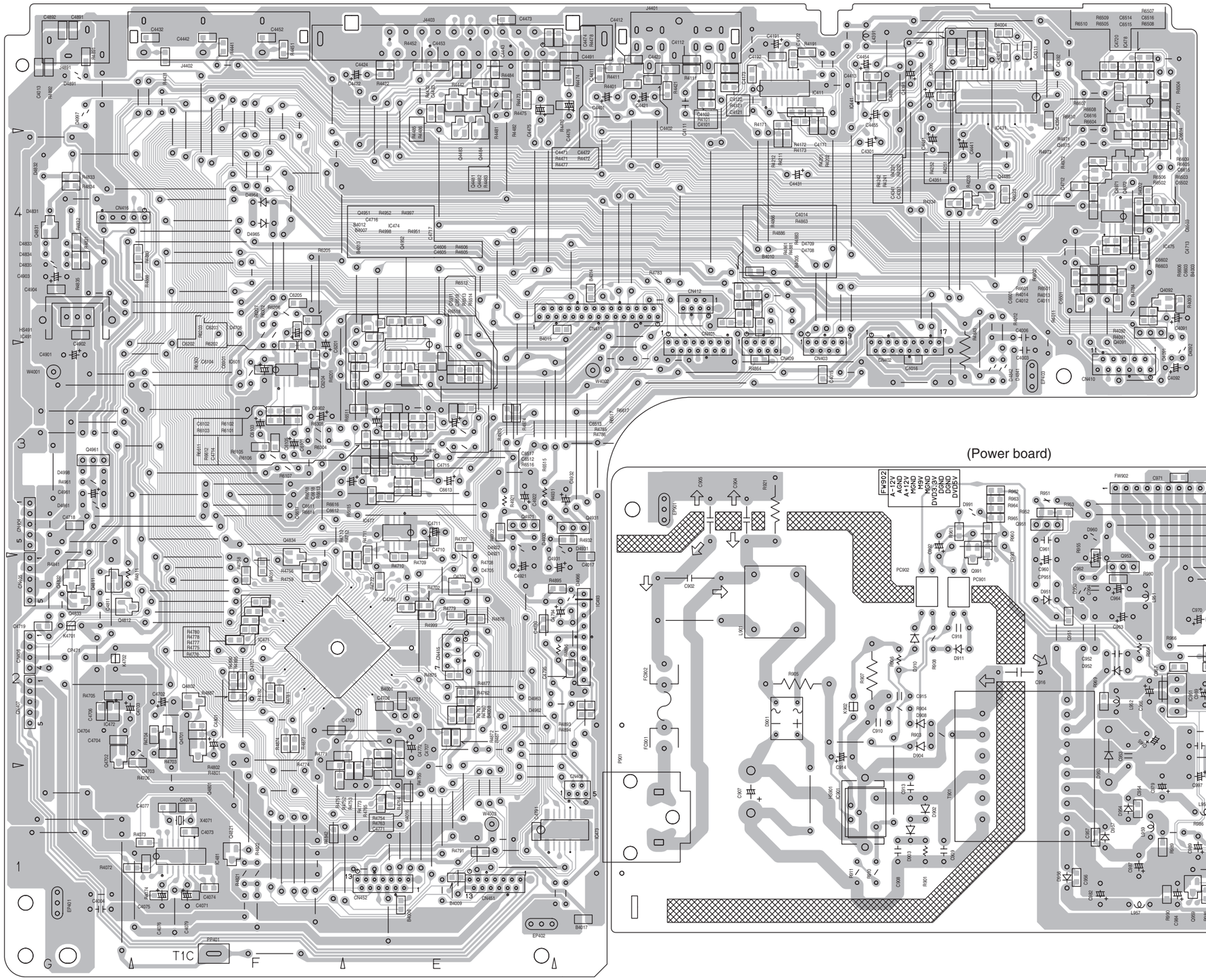
SHEET 12

Printed circuit boards

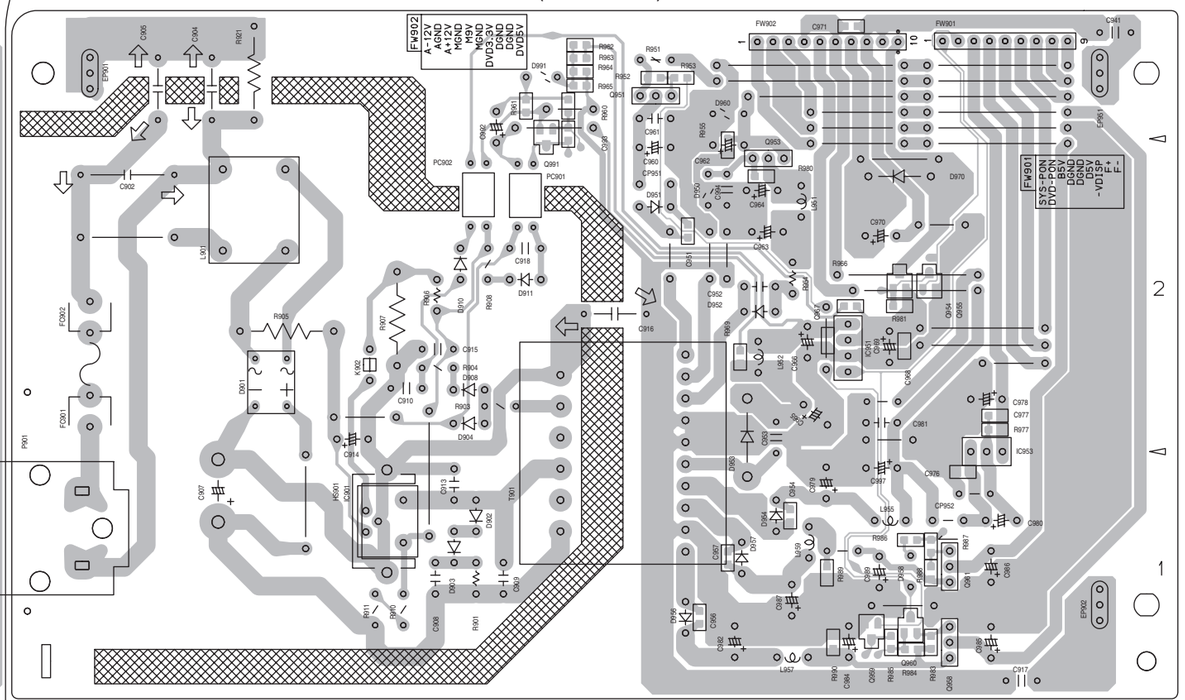
<Main body section>

■ Main board [XV-THS9, XV-THS8]

(Main board)

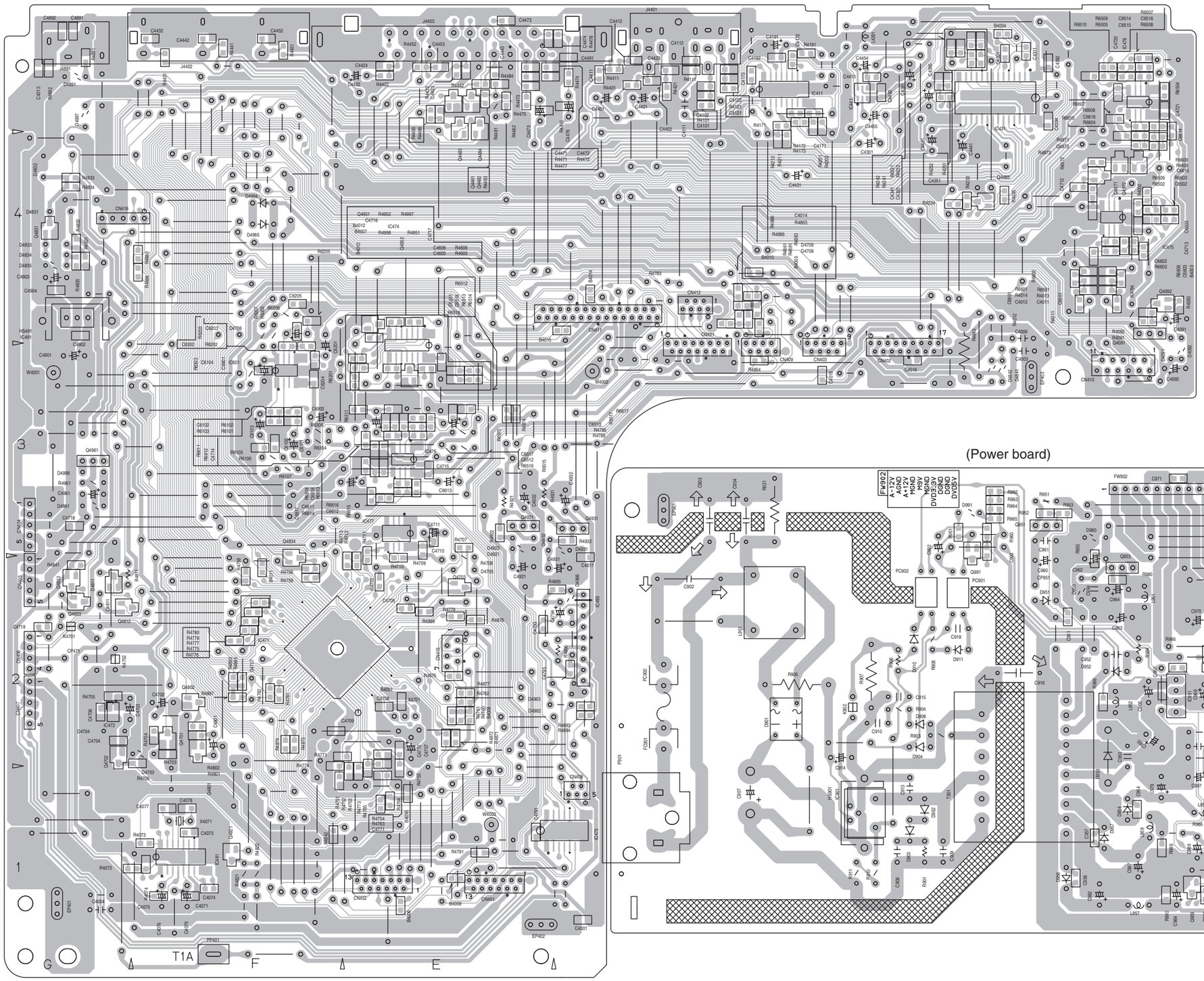


(Power board)

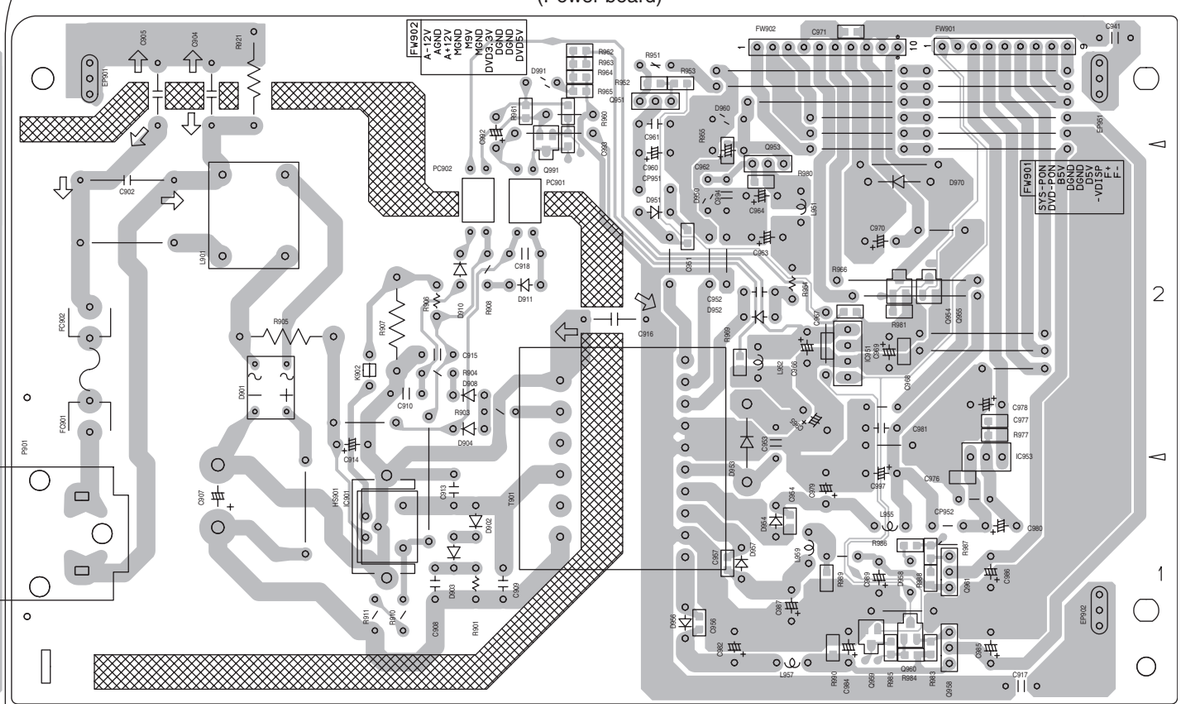


■ Main board [XV-THS7]

(Main board)

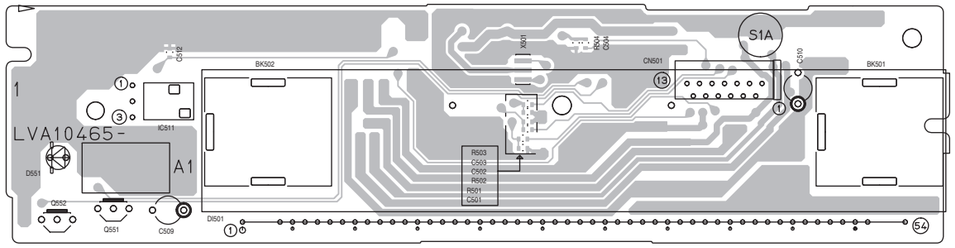


(Power board)

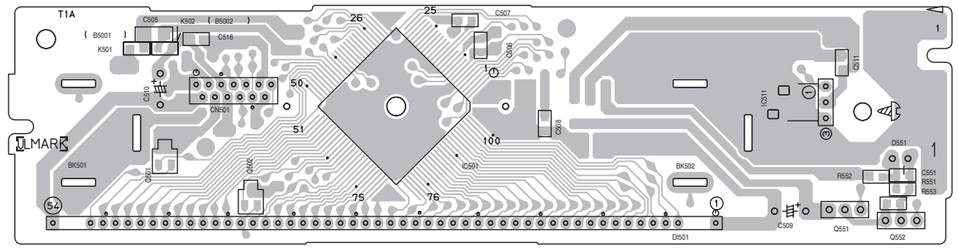


■ FL board

Forward side

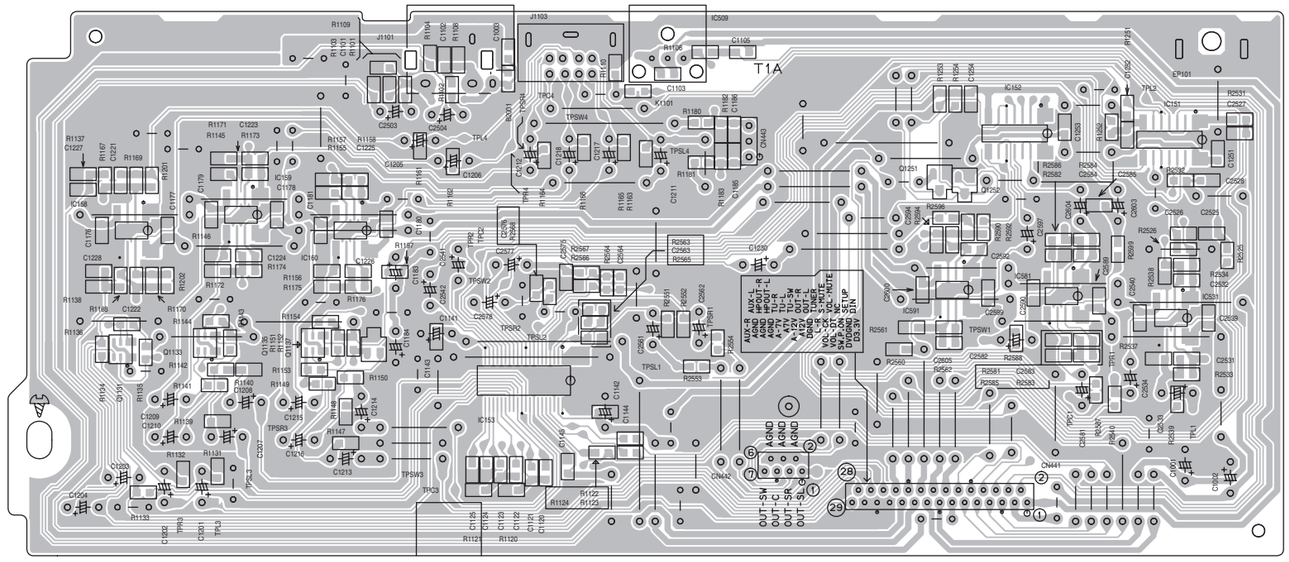


Reverse side

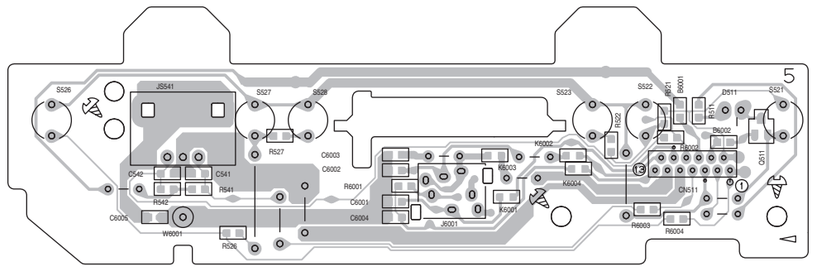


■ Audio board [XV-THS9, XV-THS8]

(Audio signal input / output board)

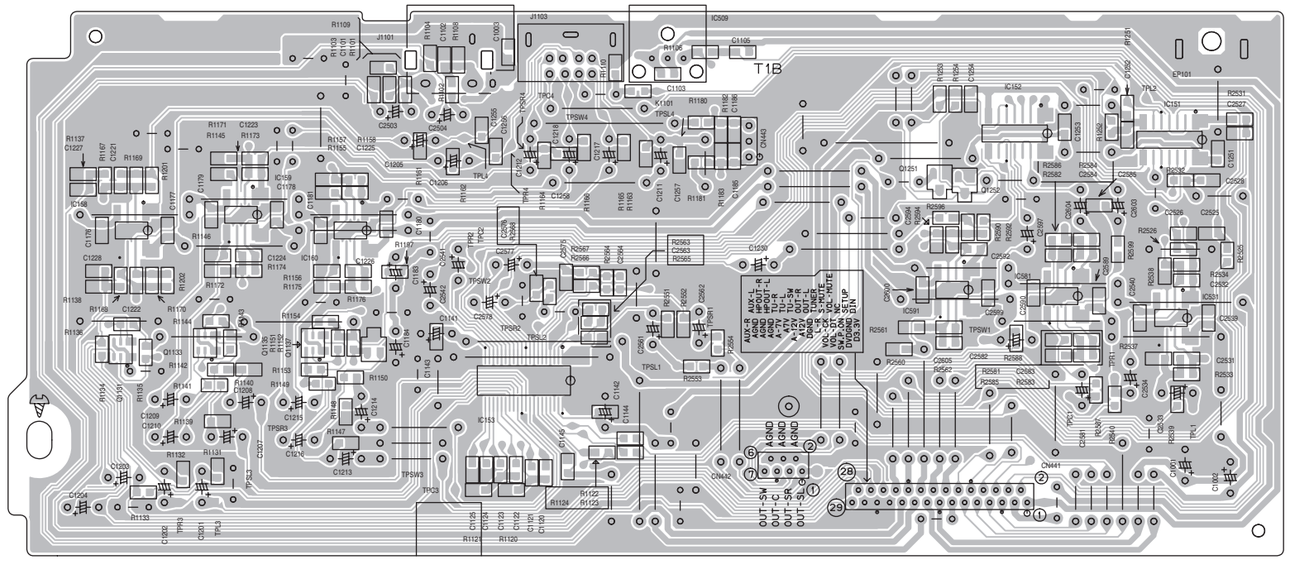


(Key board)

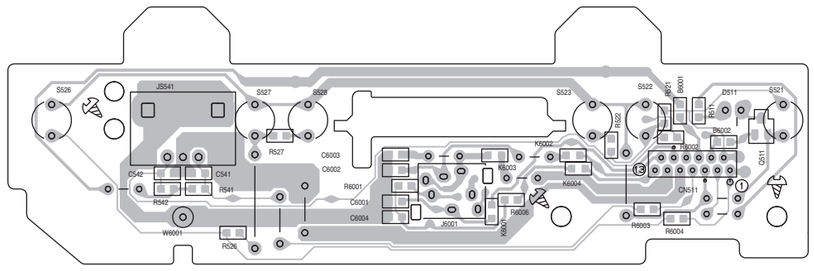


■ Audio board [XV-THS7]

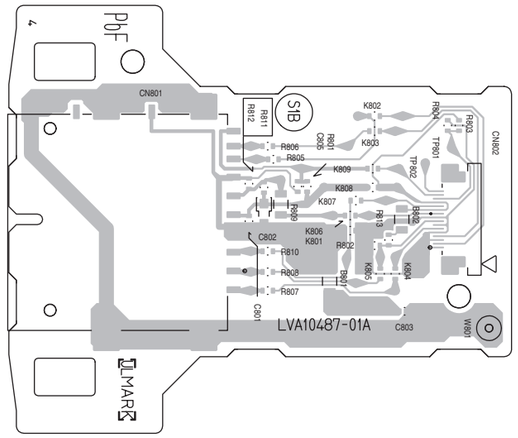
(Audio signal input / output board)



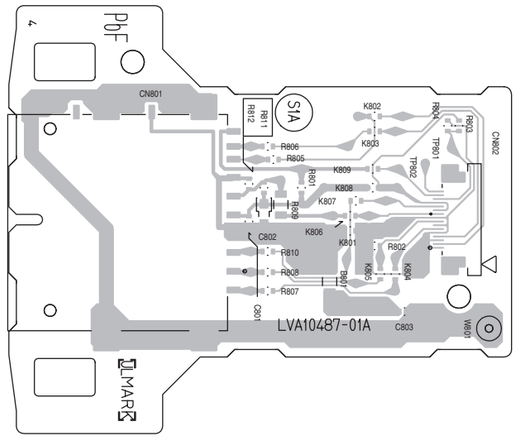
(Key board)



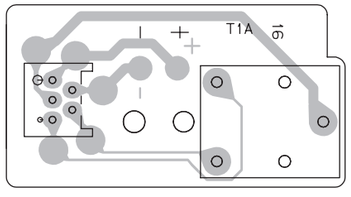
■ SD board [XV-THS9]



■ SD board [XV-THS7]

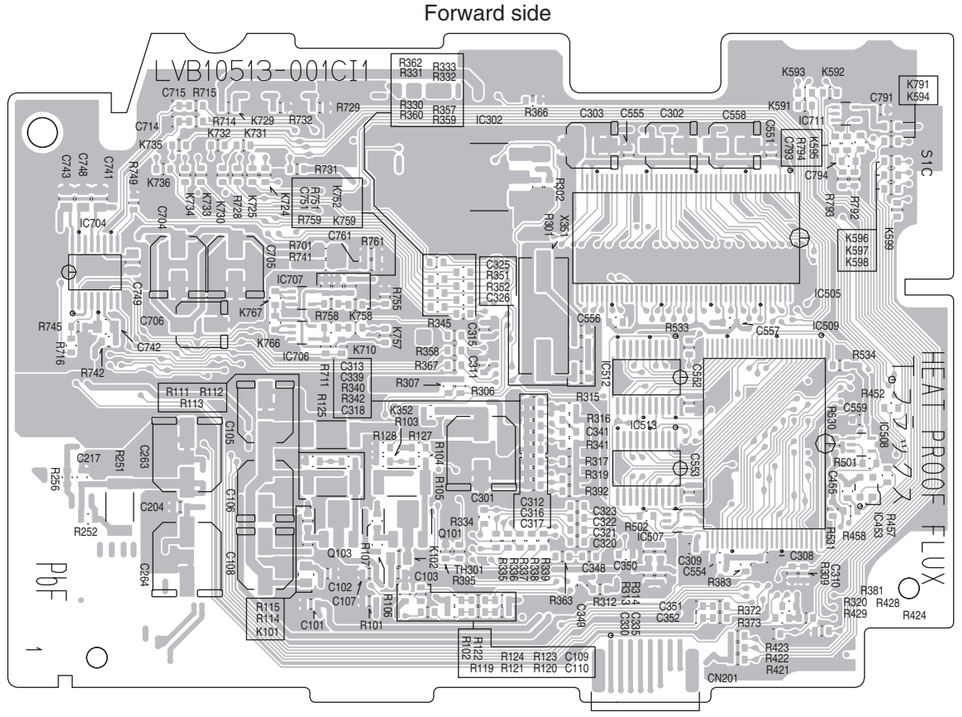


■ DVD loading switch board

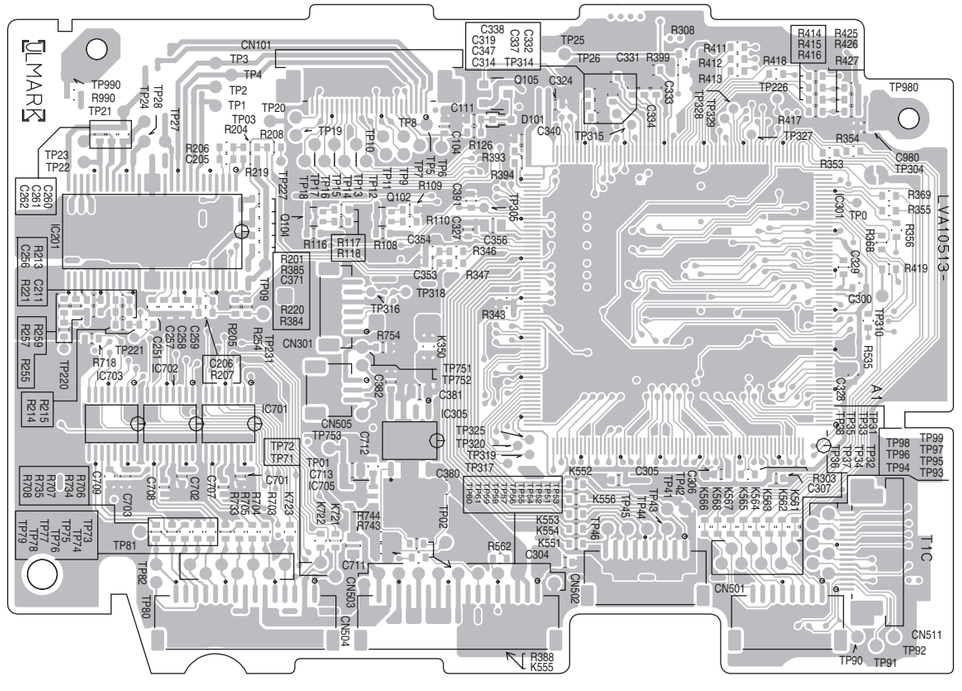


■ DVD servo board

Forward side



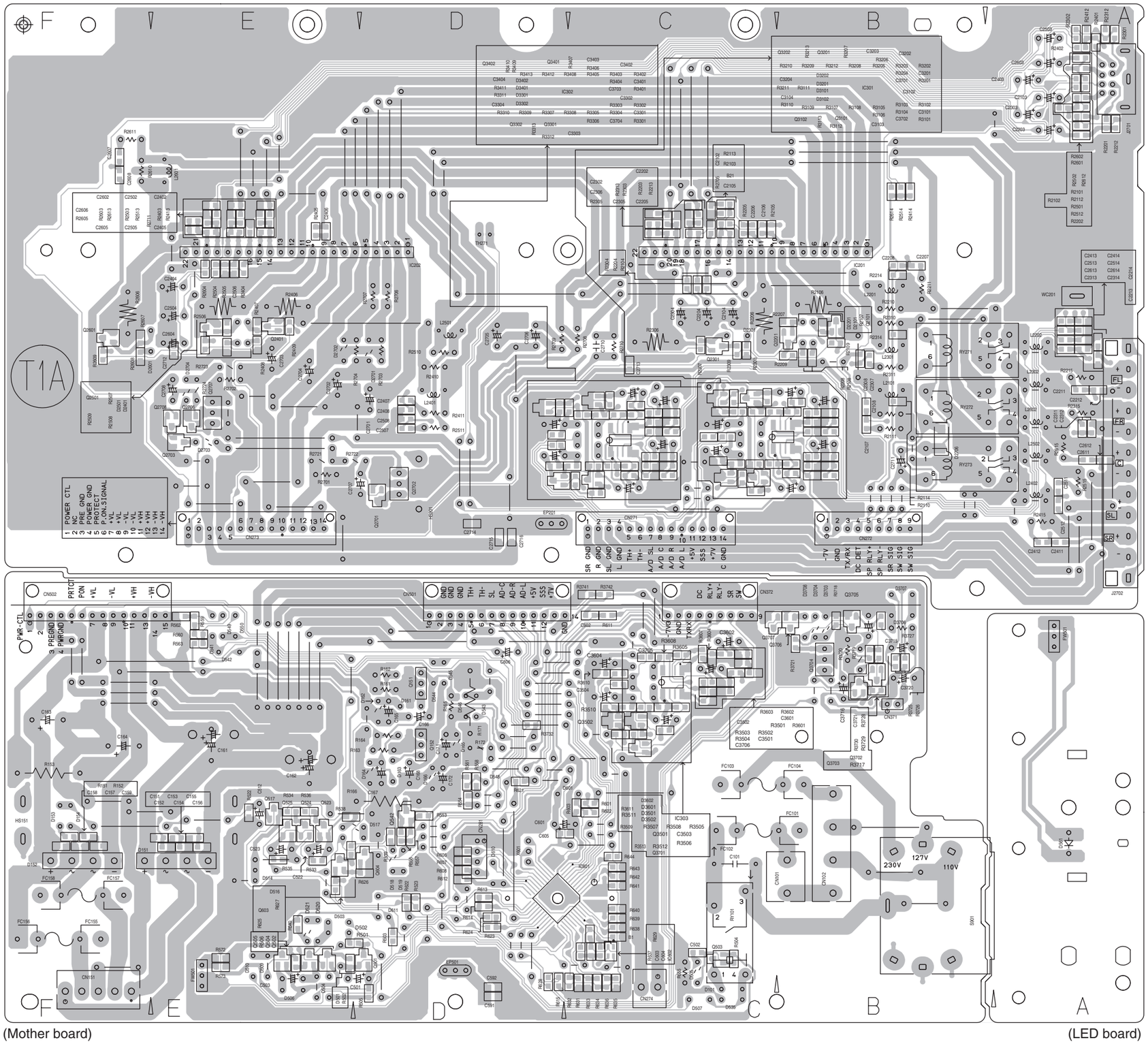
Reverse side



<Subwoofer section>

■ Main board

(Amp. board)



< MEMO >

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB236SCH)

Printed in Japan
WPC

PARTS LIST

[TH-S9] [TH-S8]
[TH-S7]

* All printed circuit boards and its assemblies are not available as service parts.

TH-S9

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

TH-S8

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

TH-S7

Area suffix

E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

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DVD mechanism assembly and parts list
(FTU-DE3-21M) (Block No.MJ) (TH-S7,TH-S9) ---------- 3- 8
DVD loading base assembly and parts list
(FMU-DE3-21M) (Block No.MN) (TH-S7,TH-S9) ---------- 3-10
DVD mechanism assembly and parts list
(FTU-DE3-2M) (Block No.MT) (TH-S8) ---------- 3-12
DVD loading base assembly and parts list
(FMU-DE3-2M) (Block No.MU) (TH-S8) ---------- 3-14
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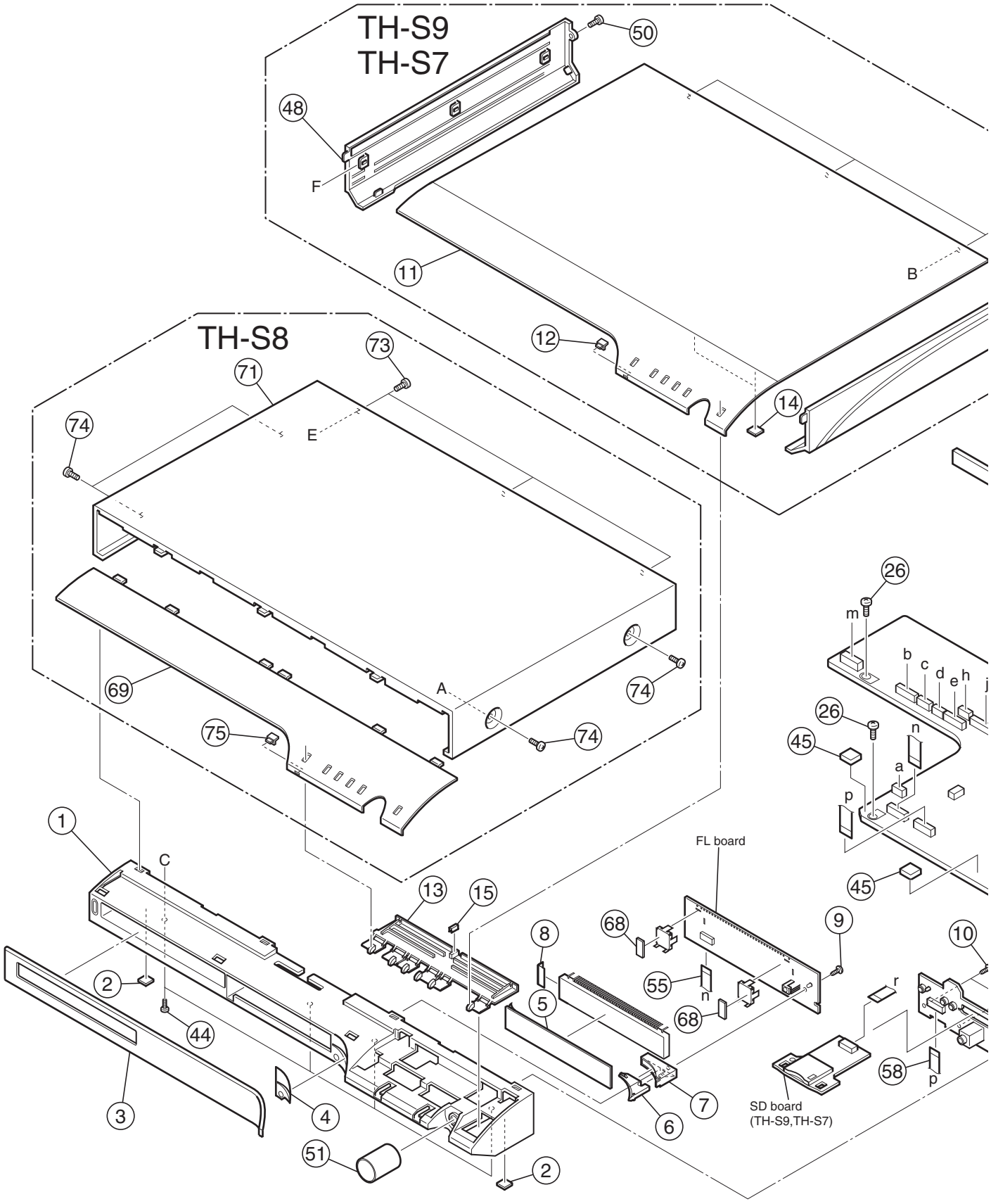
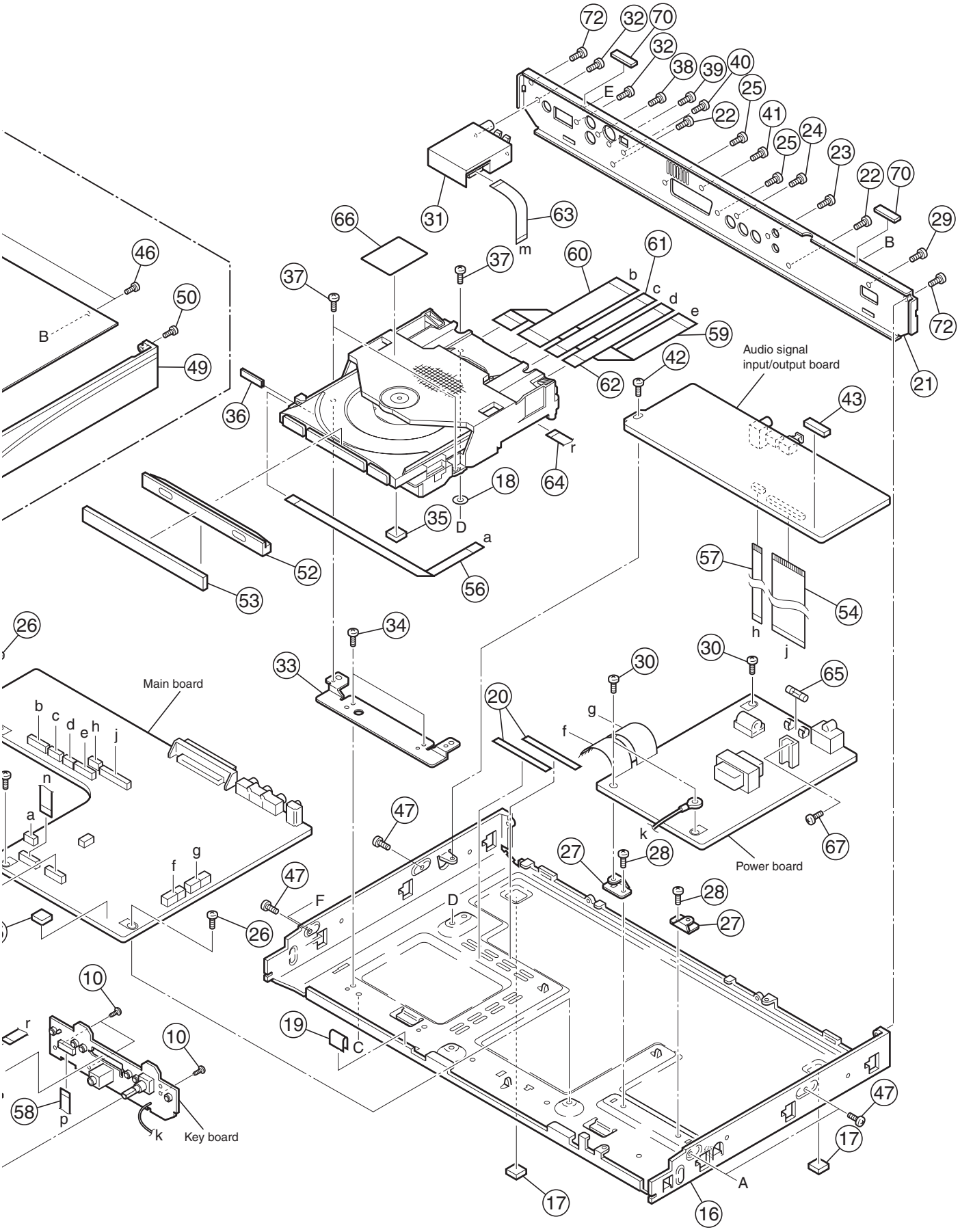
Exploded view of general assembly and parts list

Block No. M 1 M M




Audio signal input/output board
Main board
Power board
Key board

General Assembly

Block No. [M][1][M][M]

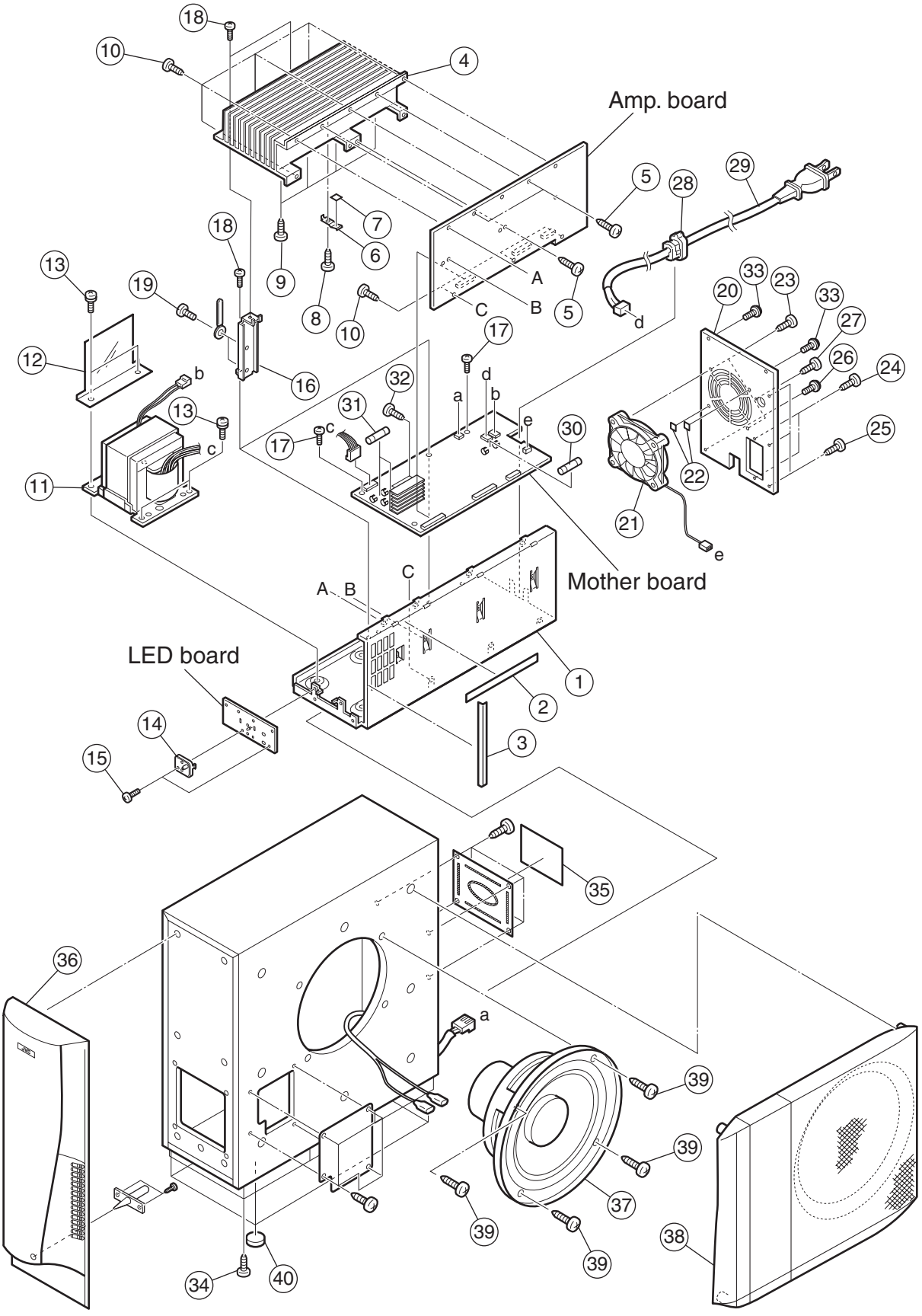
⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10859-001A	FRONT PANEL		S8
	1	LV10859-004A	FRONT PANEL		S7,S9
	2	LV40301-002A	FELT SPACER	(x2)	
	3	LV21618-003A	FL LENS		S7
	3	LV21618-010A	FL LENS		S8
	3	LV21618-004A	FL LENS		S9
	4	LV43921-001A	LENS SPACER		
	5	LV43704-001A	FL FILTER		
	6	LV34610-003A	LIGHT LENS		
	7	LV34611-002A	LENS COVER		
	8	LV30225-0U3A	SPACER		
	9	QYSDSF2608Z	TAP SCREW	M2.6 x 8mm	
	10	QYSDSF2608Z	TAP SCREW	M2.6 x 8mm(x3)	
	11	LV10861-003A	TOP COVER		S7,S9
	12	LV43680-001A	STANDBY LENS		S7,S9
	13	LV21617-002A	PUSH BUTTON		
	14	VYSH101-009	SPACER	(x2)	S7,S9
	15	LV30225-0A6A	SPACER		S7,S9
	16	LV10860-001A	CHASSIS BASE		
	17	LV40301-002A	FELT SPACER	(x2)	
	18	LV30226-044A	SPACER		
	19	LV30225-0T2A	SPACER		
	20	LV30225-0T3A	SPACER	(x2)	
	21	LV21623-036A	REAR PANEL		S7
	21	LV21623-055A	REAR PANEL		S8
	21	LV21623-043A	REAR PANEL		S9
	22	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	
	23	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	24	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	25	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	
	26	QYSDST3006Z	TAP SCREW	M3 x 6mm(x3)	
	27	LV41548-001A-NK	C.B BKT	(x2)	
	28	QYSDST3006Z	TAP SCREW	M3 x 6mm(x2)	
	29	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	30	QYSDST3006Z	TAP SCREW	M3 x 6mm(x3)	
	31	QAU0347-001	TUNER		
	32	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	
	33	LV34620-001A	MECHA BKT		
	34	QYSDST3006Z	TAP SCREW	M3 x 6mm(x2)	
	35	VYSH101-009	SPACER		
	36	LV30225-0U3A	SPACER		
	37	QYSBST3008Z	TAP SCREW	M3 x 8mm(x3)	
	38	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	39	QYSBST3006M	TAP SCREW	M3 x 6mm	
	40	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	41	QYSBSGY3008M	TAP SCREW	M3 x 8mm	
	42	QYSDST3006Z	TAP SCREW	M3 x 6mm	
	43	LV30225-095A	SPACER		
	44	QYSBSG3005M	TAP SCREW	M3 x 5mm(x4)	
	45	VYSH101-009	SPACER	(x2)	S7,S9
	46	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x3)	S7,S9
	47	QYSDSG3008Z	TAP SCREW	M3 x 8mm(x4)	S7,S9
	48	LV21619-001A	SIDE PANEL(L)		S7,S9
	49	LV21620-001A	SIDE PANEL(R)		S7,S9
	50	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	S7,S9
	51	LV34614-001A	VOL KNOB		S8
	51	LV34614-002A	VOL KNOB		S7,S9
	52	LV34612-001A	TRAY FITTING		
	53	LV34613-001A	FITTING LENS		
	54	QUQ410-2908CJ	FFC WIRE		
	55	QUQ410-1312CJ	FFC WIRE		
	56	QUQ410-0523CJ	FFC WIRE		
	57	QUQ410-0708CJ	FFC WIRE		
	58	QUQ410-1319CJ	FFC WIRE		
	59	QUQ410-1518CJ	FFC WIRE		
	60	QUQ410-1710CJ	FFC WIRE		
	61	QUQ410-0910CJ	FFC		
	62	QUQ410-0810CJ	FFC WIRE		
	63	QUQ412-1111CJ	FFC WIRE		
	64	QUQ105-1634AC	FFC WIRE		S7,S9
⚠	65	QMF51W2-1R6-J8	FUSE	F 901 1.6A AC250V	
	66	LV42035-002A	LASER CAUTION		
	67	QYSBSE3008Z	TAP SCREW	M3 x 8mm	
	68	LV30225-0M9A	SPACER	(x2)	

⚠	Symbol No.	Part No.	Part Name	Description	Local
	69	LV10874-001A	FRONT COVER		S8
	70	LV30225-0U5A	SPACER	(x2)	S8
	71	LV21622-001A/S/	METAL COVER		S8
	72	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	S8
	73	QYSBSGY3008M	TAP SCREW	(x3)	S8
	74	QYSDSG3006N	TAP SCREW	M3 x 6mm(x4)	S8
	75	LV43680-001A	STANDBY LENS		S8

Speaker assembly and parts list

Block No. M 2 M M

(Subwoofer)



Speaker(Subwoofer)

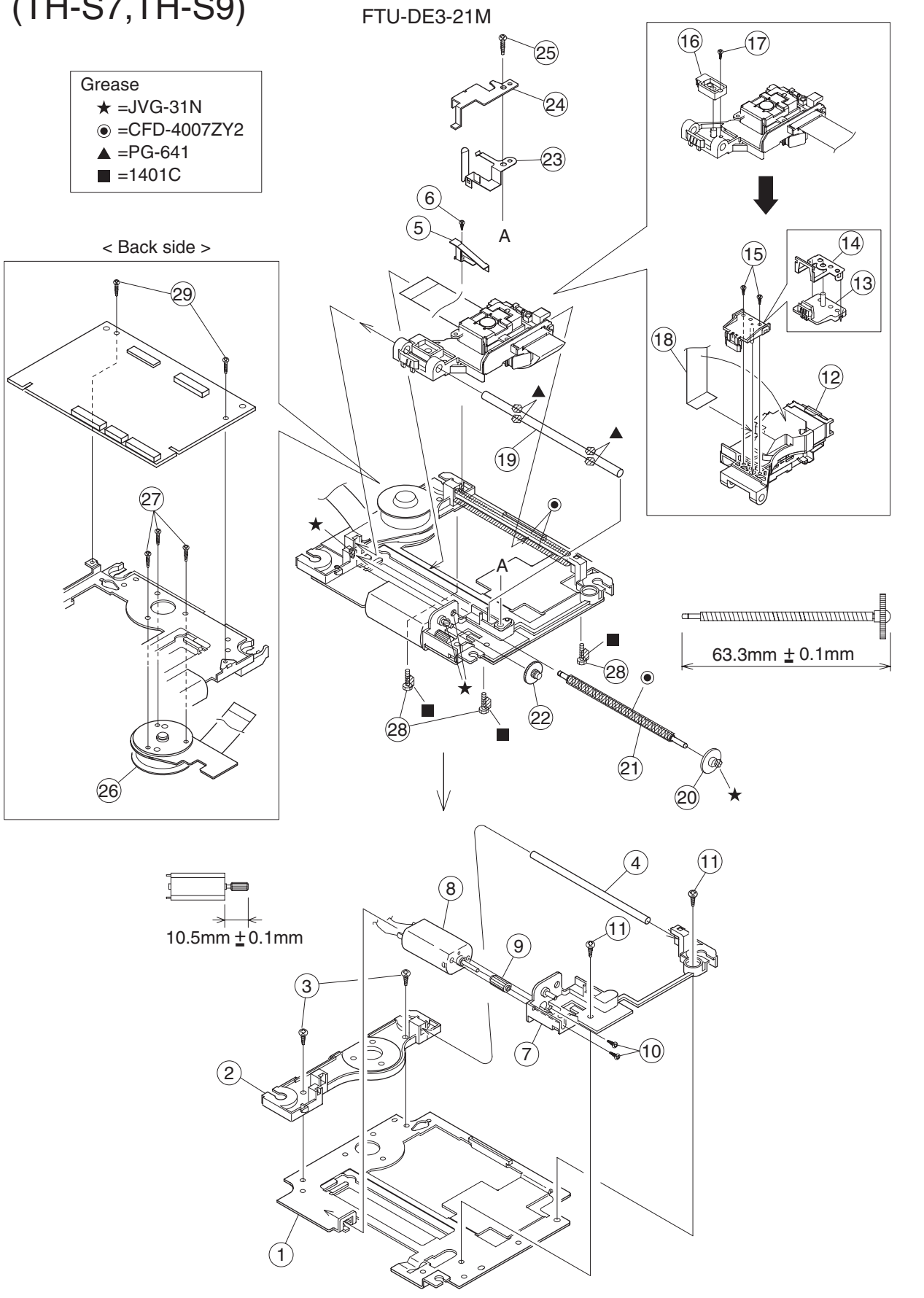
Block No. [M][2][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10875-002A	CHASSIS BASE		
	2	LV30225-0T5A	SPACER		
	3	LV30225-0T6A	SPACER		
	4	LV10876-001A	HEAT SINK		
	5	QYSBSG3010E	TAP SCREW	M3 x 10mm(x3)	
	6	LV43691-001A	HOLD SPRING		
	7	LV43203-001A	SPACER		
	8	QYSBSG3010E	TAP SCREW	M3 x 10mm	
	9	QYSBSG3016E	TAP SCREW	M3 x 16mm(x4)	
	10	QYSBSG3010E	TAP SCREW	M3 x 10mm(x9)	
⚠	11	QQT0432-002	POWER TRANSF		
	12	LV43823-001A	BARRIER		
	13	QYSDSTL4008E	TAP SCREW	M4 x 8mm(x4)	
	14	LV43692-001A	LED HOLDER		
	15	QYSBSG3010E	TAP SCREW	M3 x 10mm(x2)	
	16	LV34712-001A	HEAT SINK BKT	(x2)	
	17	QYSBSG3010E	TAP SCREW	M3 x 10mm(x2)	
	18	QYSBSG3010E	TAP SCREW	M3 x 10mm(x4)	
	19	QYSBSG3006Z	TAP SCREW	M3 x 6mm(x4)	
	20	LV21652-011A	REAR PANEL		S8
	20	LV21652-006A	REAR PANEL		S7,S9
	21	QAR0318-001	FAN MOTOR		
	22	LV30225-0D5A	SPACER	(x2)	
	23	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	
	24	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x2)	
	25	QYSBSGY3008M	TAP SCREW	M3 x 8mm(x3)	
	26	E73562-003	SCREW		
	27	QYSBST3006M	TAP SCREW	M3 x 6mm	
⚠	28	QZW0033-001	STRAIN RELIEF		
⚠	29	QMPN150-200-JC	POWER CORD(EU)	2m BLACK	THS8B,THS9B
⚠	29	QMPK210-205-JN	POWER CORD(EU)	2.05m BLACK	THS7E,THS7EN,THS7EV,THS8E,THS8EN, THS9E,THS9E,THS9EN,THS9EV,
⚠	30	QMF51W2-3R15-J8	FUSE	F 101 3.15A AC250V	
⚠	31	QMFZ051-8R0-J8	FUSE	F 153 F 154 8A(x2)	
	32	QYSPSPD3008Z	SCREW	M3 x 8mm(x2)	
	33	QYSDSA4016M	TAP SCREW	M4 x 16mm(x2)	
	34	QYSDST4014M	TAP SCREW	M4 x 14mm(x8)	
	35	LV34891-006A	RATING LABEL		S7E,S7EN
	35	LV34891-062A	RATING LABEL		S7EV
	35	LV34891-052A	RATING LABEL		S8
	35	LV34891-009A	RATING LABEL		S9B,S9E,S9EN
	35	LV34891-063A	RATING LABEL		S9EV
	36	5700067201	ORNAMENT		
	37	CR160068-01	CONE SPK		
	38	9916011701	NET ASSY		
	39	7001541606	TAPPING SCREW	(x4)	
	40	9000007931	RUBBER CUSHION	(x4)	

DVD mechanism assembly and parts list

(TH-S7,TH-S9)

Block No. M J M M



DVD mechanism (TH-S7,TH-S9)

Block No. [M][J][M][M]

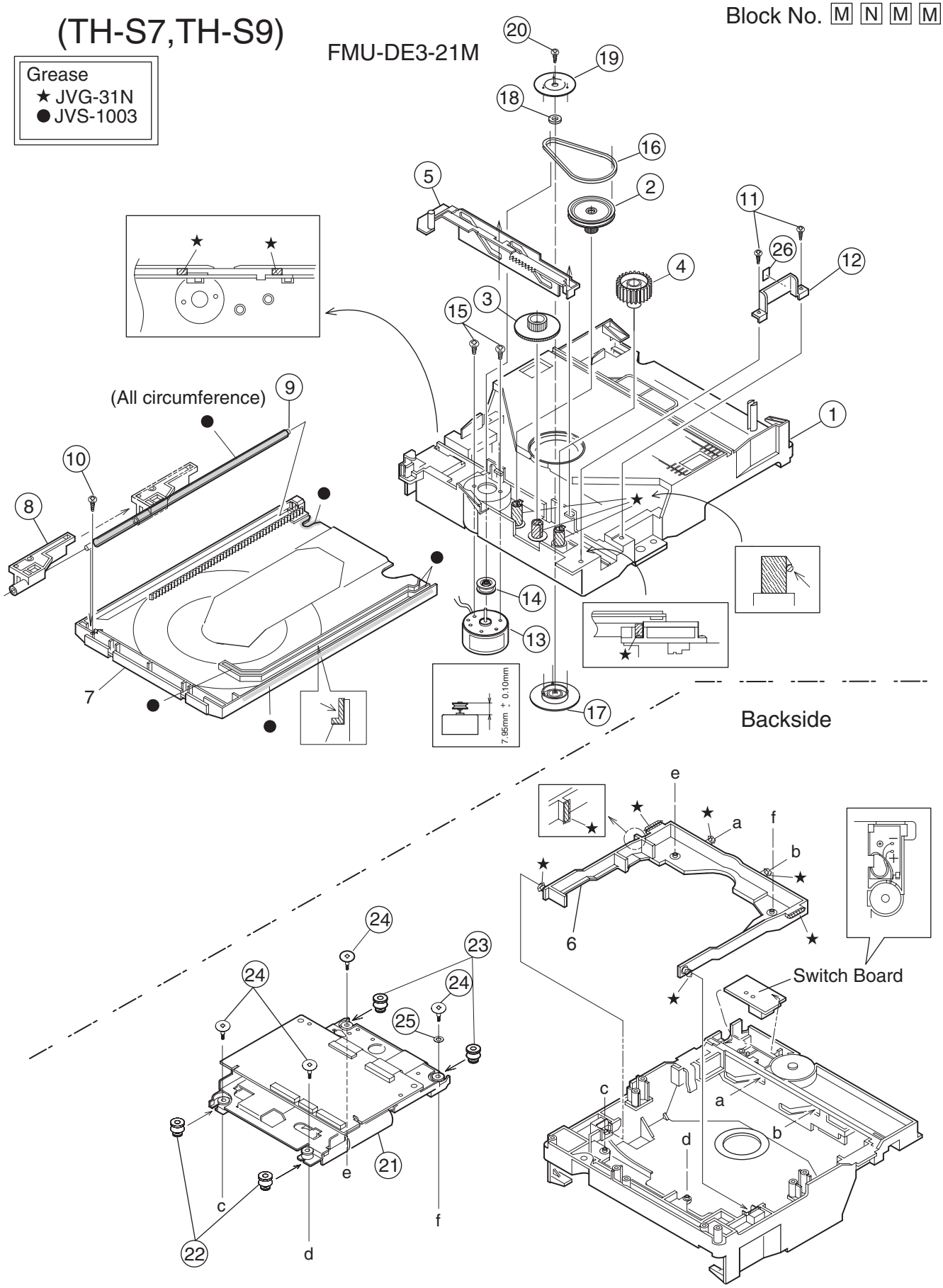
⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE20725-001A	MECHA BASE		
	2	LE20699-002A	SPINDLE BASE		
	3	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	4	LE40931-001A	SHAFT		
	5	LV33991-001A	ADJUST SPRING		
	6	QYSPSFU2040M	TAP SCREW	M2 x 4mm	
	7	LE20698-004A	FEED HOLDER		
	8	QAR0215-001	FEED MOTOR		
	9	LV41510-201A	FEED GEAR T		
	10	QYSPSPU2040M	SCREW	M2 x 4mm(x2)	
	11	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	12	QAL0507-001	PICK UP		
	13	LE20700-001A	SW ACTUATOR		
	14	LE31067-002A	LEAD SPRING		
	15	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm(x2)	
	16	LE40929-001A	SW.LEVER		
	17	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm	
	18	QUQ105-2411AC	FFC		
	19	LE40931-001A	SHAFT		
	20	LE40855-002A	FEED GEAR E		
	21	LV41517-003A	LEAD SCREW		
	22	LE40930-001A	FEED GEAR M		
	23	LE40928-002A	THURUST SPRING		
	24	LE40927-002A	PLATE		
	25	QYSDST2614Z	TAPPING SCREW	M2.6 x 14mm	
	26	QAR0316-001	SPINDLE MOTOR	JVC	
	27	QYSPSPU1740Z	SCREW	M1.7 x 4mm(x3)	
	28	LE40858-002A	SPECIAL SCREW	(x3)	
	29	QYSDST2004Z	SCREW	2mm x 4mm(x2)	

DVD loading base assembly and parts list

(TH-S7,TH-S9)

FMU-DE3-21M

Block No. M N M M



DVD loading base (TH-S7,TH-S9)

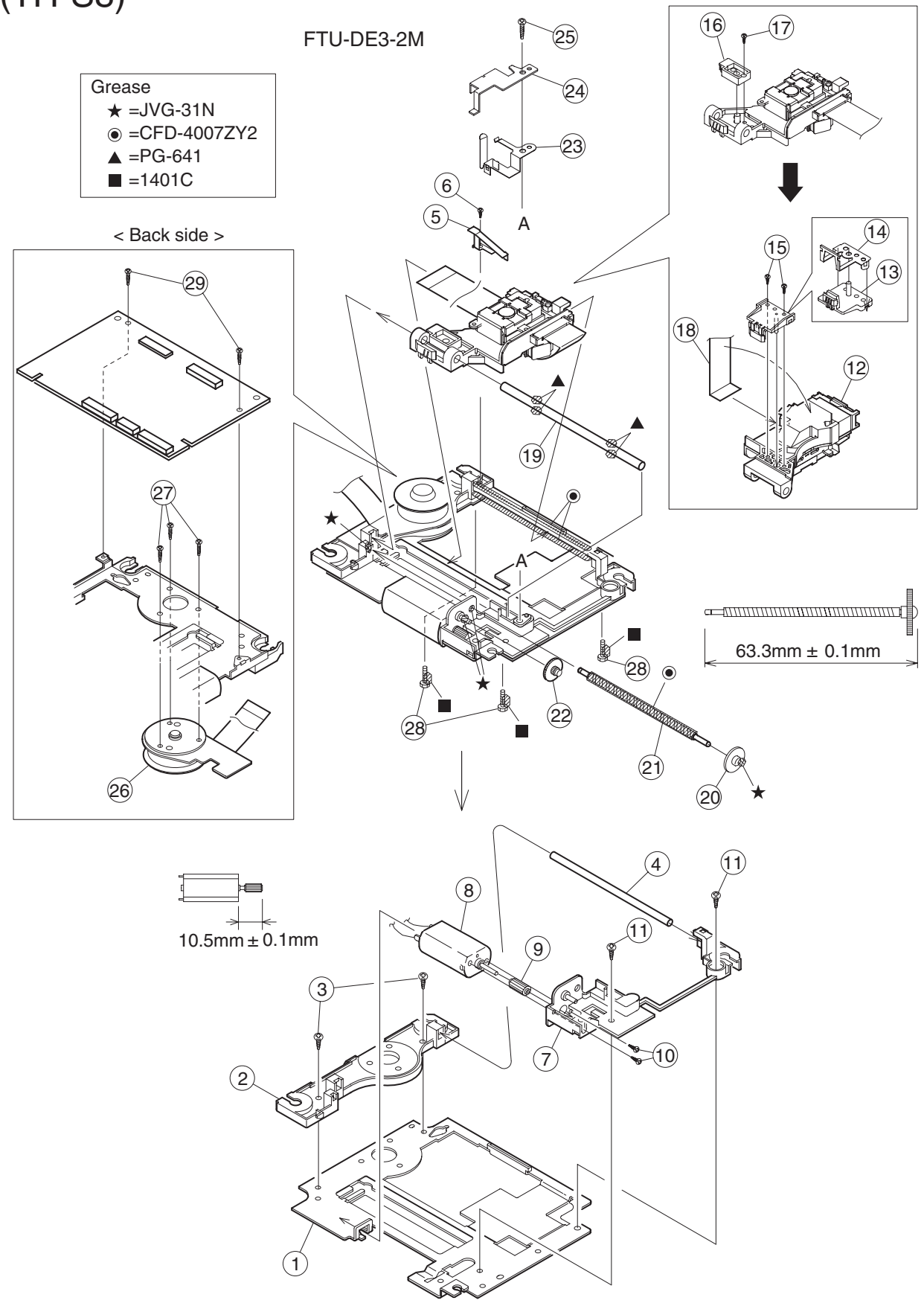
Block No. [M][N][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE10275-006A	LOADING BASE		
	2	LE31043-001A	PULLEY GEAR		
	3	LE31042-001A	MIDDLE GEAR		
	4	LE31044-001A	IDLE GEAR		
	5	LE20665-005A	SLIDE CAM		
	6	LE20666-003A	ELEVATOR		
	7	LE10276-002A	TRAY		
	8	LE31045-001A	BUSHING		
	9	LE40898-001A	SHAFT		
	10	QYSSSF2008Z	TAP SCREW	M2 x 8mm	
	11	QYSDSF2008Z	TAP SCREW	M2 x 8mm(x2)	
	12	LE40937-002A	LEAF SPRING		
	13	QAR0197-001	MOTOR		
	14	LV42087-002A	MOTOR PULLEY		
	15	QYSPSPU1730Z	SCREW	M1.7 x 3mm(x2)	
	16	LE40897-001A	BELT		
	17	LE31046-003A	CLAMPER		
	18	LV42930-003A	P.C.MAGNET		
	19	LE40899-001A	YOKE		
	20	LE40906-001A	SPECIAL SCREW		
	21	----------	DVD TRAMECHA		
	22	LE40900-003A	INSULATOR	(x2)	
	23	LE40900-005A	INSULATOR	(x2)	
	24	LE40901-001A	SPECIAL SCREW	(x4)	
	25	QYWFM419025	WASHER	9mm/4.1mm x 0.25mm	
	26	LV43828-001A	SPACER		

DVD mechanism assembly and parts list

(TH-S8)

Block No. M T M M

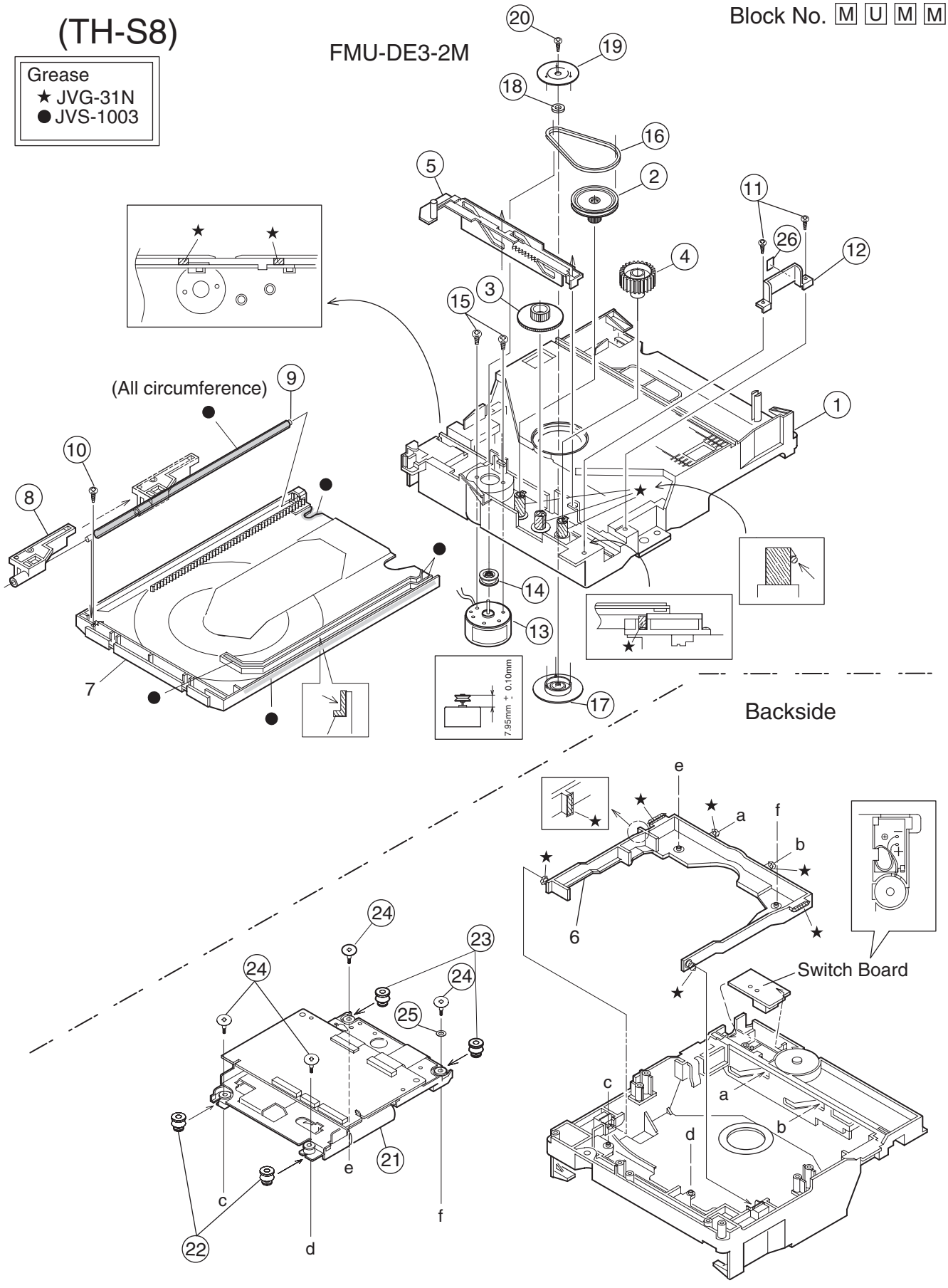


DVD mechanism (TH-S8)

Block No. [M][T][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE20725-001A	MECHA BASE		
	2	LE20699-002A	SPINDLE BASE		
	3	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	4	LE40931-001A	SHAFT		
	5	LV33991-001A	ADJUST SPRING		
	6	QYSPSFU2040M	TAP SCREW	M2 x 4mm	
	7	LE20698-004A	FEED HOLDER		
	8	QAR0215-001	FEED MOTOR		
	9	LV41510-201A	FEED GEAR T		
	10	QYSPSPU2040M	SCREW	M2 x 4mm(x2)	
	11	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	12	QAL0507-001	PICK UP		
	13	LE20700-001A	SW ACTUATOR		
	14	LE31067-002A	LEAD SPRING		
	15	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm(x2)	
	16	LE40929-001A	SW.LEVER		
	17	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm	
	18	QUQ105-2411AC	FFC		
	19	LE40931-001A	SHAFT		
	20	LE40855-002A	FEED GEAR E		
	21	LV41517-003A	LEAD SCREW		
	22	LE40930-001A	FEED GEAR M		
	23	LE40928-002A	THURUST SPRING		
	24	LE40927-002A	PLATE		
	25	QYSDST2614Z	TAP SCREW	M2.6 x 14mm	
	26	QAR0316-001	SPINDLE MOTOR		
	27	QYSPSPU1740Z	SCREW	M1.7 x 4mm(x3)	
	28	LE40858-002A	SPECIAL SCREW	(x3)	
	29	QYSDST2004Z	TAP SCREW	M2 x 4mm(x2)	

DVD loading base assembly and parts list



DVD loading base (TH-S8)

Block No. [M][U][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE10275-006A	LOADING BASE		
	2	LE31043-001A	PULLEY GEAR		
	3	LE31042-001A	MIDDLE GEAR		
	4	LE31044-001A	IDLE GEAR		
	5	LE20665-005A	SLIDE CAM		
	6	LE20666-003A	ELEVATOR		
	7	LE10276-002A	TRAY		
	8	LE31045-001A	BUSHING		
	9	LE40898-001A	SHAFT		
	10	QYSSSF2008Z	TAP SCREW	M2 x 8mm	
	11	QYSDSF2008Z	TAP SCREW	M2 x 8mm(x2)	
	12	LE40937-002A	LEAF SPRING		
	13	QAR0197-001	MOTOR		
	14	LV42087-002A	MOTOR PULLEY		
	15	QYSPSPU1730Z	SCREW	M1.7 x 3mm(x2)	
	16	LE40897-001A	BELT		
	17	LE31046-003A	CLAMPER		
	18	LV42930-003A	P.C.MAGNET		
	19	LE40899-001A	YOKE		
	20	LE40906-001A	SPECIAL SCREW		
	21	----------	DVD TRAMECHA		
	22	LE40900-003A	INSULATOR	(x2)	
	23	LE40900-005A	INSULATOR	(x2)	
	24	LE40901-001A	SPECIAL SCREW	(x4)	
	25	QYWFM419025	WASHER	9mm/4.1mm x 0.25mm	
	26	LV43828-001A	SPACER		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC431	MM1623XF-X	IC		
IC441	MM1505XN-X	IC		
IC471	MN101C49GND1	IC		
IC472	S-80840CNNB-W	IC		
IC473	SN74HCT32NS-X	IC(DIGITAL)		
IC474	CD4066BM-X	IC		
IC475	RC4580ID-X	IC		
IC476	RC4580ID-X	IC		
IC477	BR24L08F-W-X	IC(DIGITAL)		
IC478	RC4580ID-X	IC		
IC481	BU1924F-X	IC		
IC491	KIA7805API	IC		
IC493	BA6956AN	IC		
IC601	RC4580ID-X	IC		
⚠ IC901	STR-G6651	IC		
IC951	PQ05RD21	IC		
IC953	KIA7805API	IC		
Q951	2SC3576-JVC-T	TRANSISTOR		
Q953	KTA1267/YG/-T	TRANSISTOR		
Q954	SI2305DS-X	TRANSISTOR		
Q955	KRC103S-X	DIGITAL TR		
Q958	KTA1271/OY/-T	TRANSISTOR		
Q959	KRC103S-X	DIGITAL TR		
Q960	2SB709A/QR/-X	TRANSISTOR		
Q961	KTC3203/OY/-T	TRANSISTOR		
Q991	2SD601A/QR/-X	TRANSISTOR		
Q4091	KTA1271/OY/-T	TRANSISTOR		
Q4092	KTC3875/YG/-X	SI TRANSISTOR		
Q4481	KRC102S-X	DIGI TRANSISTOR		
Q4482	KRC102S-X	DIGI TRANSISTOR		
Q4483	KRA102S-X	DIGI TRANSISTOR		
Q4484	KRC102S-X	DIGI TRANSISTOR		
Q4485	2SC2814/4-5/-X	TRANSISTOR		
Q4701	KRC111S-X	TRANSISTOR		
Q4702	KRC107S-X	DIGI TRANSISTOR		
Q4703	KRC102S-X	DIGI TRANSISTOR		
Q4801	KTA1504/YG/-X	SI TRANSISTOR		
Q4802	KRC102S-X	DIGI TRANSISTOR		
Q4811	KRA102S-X	DIGI TRANSISTOR		
Q4812	KRC102S-X	DIGI TRANSISTOR		
Q4821	KRC102S-X	DIGI TRANSISTOR		
Q4831	KRC102S-X	DIGI TRANSISTOR		
Q4832	KRA110S-X	TRANSISTOR		
Q4833	KRC110S-X	DIGI TRANSISTOR		
Q4921	KTC3203/OY/-T	TRANSISTOR		
Q4931	KTA1271/OY/-T	TRANSISTOR		
Q4951	KRA104S-X	DIGI TRANSISTOR		
Q4952	KRA104S-X	DIGI TRANSISTOR		
Q4961	KTC3203/OY/-T	TRANSISTOR		
Q4971	2SC3661-X	TRANSISTOR		
Q4972	2SC3661-X	TRANSISTOR		
Q4973	KRA104S-X	DIGI TRANSISTOR		
⚠ D901	DI106	BRIDGE DIODE		
D902	ERA18-04-T1	FR DIODE		
D903	ERA18-04-T1	FR DIODE		
D904	ERA18-04-T1	FR DIODE		
D908	ERA18-04-T1	FR DIODE		
D910	ERA18-04-T1	FR DIODE		
D911	FR104S-T5	FR DIODE		
D950	MTZJ30C-T2	Z DIODE		
D951	FR104S-T5	FR DIODE		
D952	FR104S-T5	FR DIODE		
⚠ D953	RK34-LFB2	FUSEIODE		
⚠ D954	FR104S-T5	FR DIODE		
⚠ D956	FR104S-T5	FR DIODE		
⚠ D957	FR104S-T5	FR DIODE		
D958	1SS133-T2	DIODE		
D960	MTZJ2.2A-T2	S.B.DIODE		
⚠ D970	ER204-F33	FR DIODE		
D991	MTZJ5.1B-T2	Z DIODE		
D4091	1SS133-T2	DIODE		
D4092	MTZJ6.8A-T2	Z DIODE		
D4703	MTZJ4.7B-T2	Z DIODE		
D4704	1SS133-T2	DIODE		
D4705	1SS133-T2	DIODE		
D4706	1SS133-T2	DIODE		
D4707	1SS133-T2	DIODE		
D4708	1SS133-T2	DIODE		
D4709	1SS133-T2	DIODE		
D4811	1SS133-T2	DIODE		
D4831	1SS133-T2	DIODE		
D4832	1SS133-T2	DIODE		
D4833	1SS133-T2	DIODE		
D4834	1SS133-T2	DIODE		
D4835	MTZJ6.8A-T2	Z DIODE		
D4841	MTZJ2.0A-T2	Z DIODE		
D4842	MTZJ3.3A-T2	Z DIODE		
D4891	MTZJ6.2C-T2	Z DIODE		
D4921	MTZJ8.2C-T2	Z DIODE		
D4922	1SS133-T2	DIODE		
D4931	MTZJ8.2C-T2	Z DIODE		
D4932	1SS133-T2	DIODE		
D4961	MTZJ4.7A-T2	Z DIODE		
D4962	1SS133-T2	DIODE		
D4963	1SS133-T2	DIODE		
D4966	MTZJ3.9B-T2	Z DIODE		
D4997	MTZJ3.0B-T2	Z DIODE		
D4998	1SS133-T2	DIODE		
⚠ PC901	PC123Y22FZ	PHOTO COUPLER		
⚠ PC902	PC123Y22FZ	PHOTO COUPLER		
⚠ C902	QFZ9075-683	MPP CAPACITOR	0.068uF AC275V M	
⚠ C904	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C905	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C907	QEZ0688-686	E CAPACITOR	68uF	
C908	QCZ0136-332Z	C CAPACITOR	3300pF 1kV K	
C909	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C910	QCBB1HK-221Y	C CAPACITOR	220pF 50V K	
C913	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C914	QEZ0532-396Z	E CAPACITOR	39uF 25V M	
C915	QCBB1HK-471Y	C CAPACITOR	470pF 50V K	
⚠ C916	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
C917	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C918	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C951	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C952	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C953	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C954	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C956	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C957	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C960	QEZ0529-826Z	E CAPACITOR	82uF 10V M	
C961	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C962	QEKC1HM-226Z	E CAPACITOR	22uF 50V M	
C963	QEZ0533-396Z	E CAPACITOR	39uF 50V M	
C964	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C965	QEZ0528-108	E CAPACITOR	1000uF 10V M	
C966	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C967	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C969	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C976	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C977	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C978	QEKC1AM-107Z	E CAPACITOR	100uF 10V M	
C979	QEZ0530-827	E CAPACITOR	820uF 16V M	
C980	QEKC1HM-106Z	E CAPACITOR	10uF 50V M	
C981	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C982	QEZ0531-567	E CAPACITOR	560uF 25V M	
C984	QEKC1CM-227Z	E CAPACITOR	220uF 16V M	
C985	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C986	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C987	QEZ0532-187Z	E CAPACITOR	180uF 25V M	
C989	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C992	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C993	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C994	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C997	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C4001	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	S7,S9
C4003	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C4004	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C4006	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C4011	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4012	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4013	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4014	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C4015	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C4016	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4017	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C4071	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C4073	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4074	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C4075	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4076	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C4077	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C4078	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C4079	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4091	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C4092	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4301	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C4311	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4321	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4331	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4351	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4391	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4394	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4395	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C4413	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4422	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4424	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4431	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4432	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C4433	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4441	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4442	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4443	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4451	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4452	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4453	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4454	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C4455	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C4471	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4472	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4473	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4474	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C4475	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4476	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4491	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4492	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4605	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C4606	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C4702	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4703	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4704	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C4705	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4706	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4707	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4708	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4711	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4712	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4714	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4715	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4716	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4717	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4718	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4720	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4721	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4772	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4791	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4793	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4794	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4795	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4801	QETN1HM-224Z	E CAPACITOR	0.22uF 50V M	
C4891	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4892	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4921	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C4922	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4931	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C4932	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4961	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C6101	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6102	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C6103	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C6104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6201	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6202	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C6203	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C6204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6501	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6502	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6503	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6511	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6512	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6513	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6516	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6517	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C6518	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C6601	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6602	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6611	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6612	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6613	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6616	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6617	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C6618	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C6901	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C6902	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
R901	QRL01DJ-683X	OMF RESISTOR	68kΩ 1W J	
R903	QRE141J-270Y	C RESISTOR	27Ω 1/4W J	
R904	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R905	QRL027J-683	OMF RESISTOR	68kΩ 2W J	
R906	QRJ146J-681X	UNF C RESISTOR	680Ω 1/4W J	
R907	QRT027J-R47	MF RESISTOR	0.47Ω 2W J	
R908	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R910	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R911	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R951	QRE141J-150Y	C RESISTOR	15Ω 1/4W J	
R952	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R953	NRSA02J-223X	MG RESISTOR	22kΩ 1/10W J	
⚠ R954	QRZ9005-100X	FUSI RESISTOR	10Ω	
R955	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R960	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R961	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R963	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R964	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R965	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R966	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R969	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R977	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R980	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R983	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R984	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R985	NRSA02J-132X	MG RESISTOR	1.3kΩ 1/10W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R986	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R987	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R988	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R989	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R990	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4013	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4014	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4072	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4073	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4074	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4091	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4092	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4093	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4172	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4173	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4201	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R4202	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4211	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R4212	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4231	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R4232	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4233	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4234	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R4235	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4241	NRSA63J-431X	MG RESISTOR	430Ω 1/16W J	
R4242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4251	NRSA63J-431X	MG RESISTOR	430Ω 1/16W J	
R4252	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4422	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4432	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4441	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4442	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4451	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4452	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4471	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R4472	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R4473	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4474	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4475	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4476	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4477	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4478	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4481	QRE141J-202Y	C RESISTOR	2kΩ 1/4W J	
R4482	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R4483	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4484	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4485	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4486	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4606	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4704	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4706	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4708	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R4709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4711	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4713	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4759	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4760	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4761	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4762	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4763	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	S7,S9
R4764	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4765	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	S8
R4775	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4776	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4778	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4779	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4780	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4781	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4782	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4783	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4784	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4785	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4786	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4791	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R4801	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4802	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
⚠ R4811	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
R4821	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R4822	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4831	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4832	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4833	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4834	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R4835	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4841	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R4842	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4843	QRT017J-2R2	MF RESISTOR	2.2Ω 1W J	
R4861	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4863	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4864	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4866	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4871	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4872	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4873	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4874	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4875	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4876	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4877	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4881	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4883	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4891	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4892	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4893	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4894	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4895	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4896	QRK126J-1R0X	UNF C RESISTOR	1Ω 1/2W J	
⚠ R4921	QRZ9005-100X	FUSI RESISTOR	10Ω	
R4922	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R4931	QRZ9005-100X	FUSI RESISTOR	10Ω	
R4932	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4951	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4952	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4961	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R4971	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4972	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R4973	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4974	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R4975	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6101	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6102	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6103	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6105	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6106	QRE141J-330Y	C RESISTOR	33Ω 1/4W J	
R6107	QRE141J-390Y	C RESISTOR	39Ω 1/4W J	
R6201	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6202	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6203	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6206	QRE141J-330Y	C RESISTOR	33Ω 1/4W J	
R6207	QRE141J-390Y	C RESISTOR	39Ω 1/4W J	
R6302	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6303	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6304	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6305	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R6501	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R6502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6510	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6511	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6513	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6515	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6516	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6517	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6518	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6601	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6604	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6606	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6607	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6608	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6609	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6611	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6613	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6615	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6616	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6617	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6618	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
⚠ L901	QQR1105-001	LINE FILTER		
L951	QQL244K-R22Z	COIL	0.22uH K	
L952	QQL44BK-220Z	COIL	22uH K	
L955	QQL26AK-220Z	COIL	22uH K	
L957	QQL244K-100Z	COIL	10uH K	
L959	QQL244K-100Z	COIL	10uH K	
L4391	QQL25CK-221Z	COIL	220uH K	
⚠ T901	QQS0097-001	SW TRANSF		
CN401	QGF1036C1-15	CONNECTOR	FFC/FPC (1-15)	
CN402	QGF1036C1-17	CONNECTOR	FFC/FPC (1-17)	
CN403	QGF1036C1-09	CONNECTOR	FFC/FPC (1-9)	
CN404	QGD2504C1-05Z	CONNECTOR	(1-5)	
CN405	QGD2504C1-05Z	CONNECTOR	(1-5)	
CN406	QGD2504C1-04Z	CONNECTOR	(1-4)	
CN407	QGD2504C1-05Z	CONNECTOR	(1-5)	
CN408	QGF1036C1-05	CONNECTOR	FFC/FPC (1-5)	
CN409	QGF1036C1-08	CONNECTOR	FFC/FPC (1-8)	
CN410	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN411	QGF1036C1-29	CONNECTOR	FFC/FPC (1-29)	
CN412	QGF1036C1-07	CONNECTOR	FFC/FPC (1-7)	
CN451	QGF1036C1-13	CONNECTOR	FFC/FPC (1-13)	
CN452	QGF1036C1-13	CONNECTOR	FFC/FPC (1-13)	
⚠ CP471	ICP-N5-T	IC PROTECTOR	250mA	
⚠ CP951	ICP-N10-T	IC PROTECTOR	400mA	
⚠ CP952	ICP-N5-T	IC PROTECTOR	250mA	
EP401	QNZ0136-001Z	EARTH PLATE		
EP402	QNZ0136-001Z	EARTH PLATE		
EP403	QNZ0136-001Z	EARTH PLATE		
EP901	QNZ0136-001Z	EARTH PLATE		
EP902	QNZ0136-001Z	EARTH PLATE		
FC901	QNG0003-001Z	FUSE CLIP		
FC902	QNG0003-001Z	FUSE CLIP		
FW901	QUM219-06DGZ4	PARA RIBON WIR		
FW902	QUM21A-06DGZ4	PARA RIBON WIR		
HS901	E70306-014	HEAT SINK		
J4402	QNN0572-001	PIN JACK		
J4403	QNZ0625-001	RGB CONNECTOR		
J4891	QNS0089-001	3.5 JACK		
K4702	QQR0621-001Z	COIL		
⚠ P901	QNC0091-001	AC INLET		
X4071	QAX0263-001Z	CRYSTAL	4.332MHz	
X4701	QAX0246-001Z	C RESONATOR	8.00MHz	

Front board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC501	MN101C35DKW	IC(MPU)		
IC511	GP1UM271XK	IR DETECT UNIT	38kHz	
Q501	KRC102S-X	DIGI TRANSISTOR		
Q502	KRC102S-X	DIGI TRANSISTOR		
Q551	KRC102M-T	DIGI TRANSISTOR		
Q552	KRC111M-T	TRANSISTOR		
D551	SLR343BBT/H-L/T	LED		
C501	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C502	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	NBE21AM-226X	TA E CAPACITOR	22uF 10V M	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB21CK-105X	C CAPACITOR	1uF 16V K	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R552	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R553	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
BK501	LV43659-001A	FL HOLDER		
BK502	LV43659-001A	FL HOLDER		
CN501	QGF1036F1-13	CONNECTOR	FFC/FPC (1-13)	
DI501	QLF0131-002	FL TUBE		
X501	NAX0623-001X	C RESONATOR	8.00MHz	

Audio board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC151	CD4066BM-X	IC		
IC152	CD4066BM-X	IC		
IC153	BD3814FV-X	IC		
IC158	RC4580ID-X	IC		
IC159	RC4580ID-X	IC		
IC160	RC4580ID-X	IC		
IC509	GP1FA352RZ	OPT RECEIVER		
IC531	RC4580ID-X	IC		
IC581	RC4580ID-X	IC		
IC591	RC4580ID-X	IC		
Q511	KRC102S-X	DIGI TRANSISTOR		
Q1131	IMX9-W	TRANSISTOR		
Q1133	IMX9-W	TRANSISTOR		
Q1135	IMX9-W	TRANSISTOR		
Q1137	2SC3661-X	TRANSISTOR		
Q1251	KRA104S-X	DIGI TRANSISTOR		
Q1252	KRA104S-X	DIGI TRANSISTOR		
D511	SLR-343VC-T	LED		
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C542	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1001	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1002	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1003	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1101	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C1102	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C1103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1120	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1124	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1125	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1141	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1142	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1144	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1145	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1176	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1177	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1178	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1179	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1180	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1181	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1183	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1184	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C1201	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C1202	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C1203	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C1204	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C1205	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1206	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1207	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1208	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1209	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1210	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1211	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1212	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1213	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1214	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1215	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1216	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1217	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1218	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1221	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1222	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1223	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1224	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1225	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C1226	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C1227	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C1228	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C1230	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1251	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1252	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1253	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1254	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1255	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1256	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1257	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1258	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C2503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2504	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2525	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2526	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2527	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2528	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2531	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C2532	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C2533	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2534	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2539	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2540	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2541	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2542	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2561	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2562	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2563	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C2564	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C2575	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2576	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2577	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2578	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2581	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2582	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2583	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C2584	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2585	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2589	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2590	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2592	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2594	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C2597	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2599	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2600	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2603	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2604	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2605	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C6001	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C6002	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C6003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R511	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R521	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R522	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R526	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R527	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1101	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1102	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1103	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1104	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1108	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R1109	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R1110	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1120	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1121	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1123	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1124	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1131	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1132	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1133	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1134	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1135	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1136	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1137	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1138	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1139	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1140	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1143	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1144	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1145	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1147	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1148	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1151	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1152	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1153	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1154	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1155	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1156	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1157	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1158	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1161	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1162	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1163	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1164	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1165	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1166	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1167	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1168	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1169	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1170	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1171	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	S7
R1171	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	S8,S9
R1172	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	S7
R1172	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	S8,S9
R1173	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1174	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1175	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	S7
R1175	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	S8,S9
R1176	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1197	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R1201	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1202	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1251	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1252	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1253	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2531	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2533	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2534	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2537	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2538	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2539	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2540	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2551	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2552	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2554	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2561	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2565	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2566	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2567	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2568	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2581	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2582	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2583	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2584	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2585	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2586	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2587	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2588	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2590	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2594	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2596	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2599	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6006	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
CN441	QGF1036C1-29	CONNECTOR	FFC/FPC (1-29)	
CN442	QGF1036C1-07	CONNECTOR	FFC/FPC (1-7)	
CN511	QGF1036F1-13	CONNECTOR	FFC/FPC (1-13)	
EP101	E409182-001SM	GRAND TERMINAL		
J1101	QNN0215-001	SURROUND JACK		
J1103	QND0118-001	DIN CONNECTOR		
J6001	QNS0231-001	JACK		
JS541	QSW1059-001	JOG VOLUME		
K1101	NQR0007-002X	FERRITE BEADS		
K6001	NQR0007-002X	FERRITE BEADS		
K6002	NQR0007-002X	FERRITE BEADS		
K6003	NQR0007-002X	FERRITE BEADS		
K6004	NQR0007-002X	FERRITE BEADS		
S521	QSW0683-001Z	PUSH SW		
S522	QSW0683-001Z	PUSH SW		
S523	QSW0683-001Z	PUSH SW		
S526	QSW0683-001Z	PUSH SW		
S527	QSW0683-001Z	PUSH SW		
S528	QSW0683-001Z	PUSH SW		

SD board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
C801	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	S7,S9
C802	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	S7,S9
C803	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	S7,S9
C805	NCB31HK-102X	C CAPACITOR	1000pF 50V K	S7,S9
R801	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	S7,S9
R804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	S7,S9
R805	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S7,S9
R806	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S7,S9
R807	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S7,S9
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S7,S9
R809	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	S7,S9
R810	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S7,S9
R811	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	S7,S9
R812	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	S7,S9
R813	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	S7,S9
CN801	QNZ0683-001	SD CARD CONNECT		S7,S9
CN802	QGF0523F1-16W	CONNECTOR	FFC/FPC (1-16)	S7,S9
K801	NQR0022-002X	FERRITE BEADS		S7,S9
K802	NQR0022-002X	FERRITE BEADS		S7,S9
K803	NQR0022-002X	FERRITE BEADS		S7,S9
K804	NQR0022-002X	FERRITE BEADS		S7,S9
K805	NQR0022-002X	FERRITE BEADS		S7,S9
K806	NQR0022-002X	FERRITE BEADS		S7,S9
K807	NQR0022-002X	FERRITE BEADS		S7,S9
K808	NQR0022-002X	FERRITE BEADS		S7,S9
K809	NQR0022-002X	FERRITE BEADS		S7,S9

Mother board

Block No. [0][5][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC201	STK413-430	IC		
⚠ IC202	STK413-400	IC		
IC301	RC4558D-X	IC		
IC302	RC4558D-X	IC		
IC303	RC4558D-X	IC		
IC601	MN101C427NB	IC		
IC602	S-80840CNNB-W	IC		
Q151	KTD863/Y/-T	TRANSISTOR		
Q152	KTC3203/OY/-T	TRANSISTOR		
Q501	UN2113-X	TRANSISTOR		
Q502	UN2211-X	TRANSISTOR		
Q503	KTC3875/YG/-X	SI TRANSISTOR		
Q504	KTA1504/YG/-X	SI TRANSISTOR		
Q505	UN2211-X	TRANSISTOR		
Q517	UN2213-X	DIGI TRANSISTOR		
Q523	KTC3875/YG/-X	SI TRANSISTOR		
Q524	KTA1504/YG/-X	SI TRANSISTOR		
Q525	KTC3875/YG/-X	SI TRANSISTOR		
Q542	KTC3875/YG/-X	SI TRANSISTOR		
Q603	KTC3875/YG/-X	SI TRANSISTOR		
Q604	KTC3265/Y/-X	TRANSISTOR		
Q2101	KTA1504/YG/-X	SI TRANSISTOR		
Q2201	KTA1504/YG/-X	SI TRANSISTOR		
Q2301	KTA1504/YG/-X	SI TRANSISTOR		
Q2401	KTA1504/YG/-X	SI TRANSISTOR		
Q2501	KTA1504/YG/-X	SI TRANSISTOR		
Q2601	KTA1504/YG/-X	SI TRANSISTOR		
Q2701	KTC3875/YG/-X	SI TRANSISTOR		
Q2702	KTA1046/Y/	TRANSISTOR		
Q2703	UN2211-X	TRANSISTOR		
Q3101	KTC3875/YG/-X	SI TRANSISTOR		
Q3102	KTC3875/YG/-X	SI TRANSISTOR		
Q3201	KTC3875/YG/-X	SI TRANSISTOR		
Q3202	KTC3875/YG/-X	SI TRANSISTOR		
Q3301	KTC3875/YG/-X	SI TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q3302	KTC3875/YG/-X	SI TRANSISTOR		
Q3401	KTC3875/YG/-X	SI TRANSISTOR		
Q3402	KTC3875/YG/-X	SI TRANSISTOR		
Q3501	KTC3875/YG/-X	SI TRANSISTOR		
Q3502	KTC3875/YG/-X	SI TRANSISTOR		
Q3701	UN2111-X	TRANSISTOR		
Q3702	UN2111-X	TRANSISTOR		
Q3703	UN2212-X	TRANSISTOR		
Q3704	KTC2026/Y/	TRANSISTOR		
Q3705	KTC3875/YG/-X	SI TRANSISTOR		
Q3706	UN2213-X	DIGI TRANSISTOR		
D101	1SS133-T2	DIODE		
⚠ D151	GBU803	BRIDGE DIODE		
⚠ D152	GBU803	BRIDGE DIODE		
D153	1SS133-T2	DIODE		
D154	1SS133-T2	DIODE		
D161	1SS133-T2	DIODE		
D162	MTZJ13C-T2	Z DIODE		
D163	1SS133-T2	DIODE		
D164	MTZJ6.2A-T2	Z DIODE		
D165	MTZJ6.8C-T2	Z DIODE		
D166	MTZJ6.8C-T2	Z DIODE		
D501	1SS133-T2	DIODE		
D502	1SS133-T2	DIODE		
D503	1SS133-T2	DIODE		
D504	1SS133-T2	DIODE		
D505	MTZJ5.1C-T2	Z DIODE		
D506	1SS133-T2	DIODE		
D507	1SS133-T2	DIODE		
D509	1SS133-T2	DIODE		
D510	1SS133-T2	DIODE		
D514	1SS133-T2	DIODE		
D518	MTZJ15C-T2	Z DIODE		
D519	1SS133-T2	DIODE		
D520	1SS133-T2	DIODE		
D521	MTZJ6.8C-T2	Z DIODE		
D535	1SS133-T2	DIODE		
D541	1SS133-T2	DIODE		
D542	1SS133-T2	DIODE		
D543	1SS133-T2	DIODE		
D544	1SS133-T2	DIODE		
D545	1SS133-T2	DIODE		
D546	1SS133-T2	DIODE		
D548	1SS133-T2	DIODE		
D549	1SS133-T2	DIODE		
D550	1SS133-T2	DIODE		
D551	1SS133-T2	DIODE		
D552	1SS133-T2	DIODE		
D553	1SS133-T2	DIODE		
D561	SLR-342MC-T12	LED		
D601	1SS133-T2	DIODE		
D610	1SS133-T2	DIODE		
D611	1SS133-T2	DIODE		
D2101	1SS133-T2	DIODE		
D2201	1SS133-T2	DIODE		
D2301	1SS133-T2	DIODE		
D2401	1SS133-T2	DIODE		
D2501	1SS133-T2	DIODE		
D2601	1SS133-T2	DIODE		
D2701	MTZJ13C-T2	Z DIODE		
D2702	MTZJ13C-T2	Z DIODE		
D2703	MTZJ16C-T2	Z DIODE		
D3101	1SS133-T2	DIODE		
D3102	1SS133-T2	DIODE		
D3201	1SS133-T2	DIODE		
D3202	1SS133-T2	DIODE		
D3301	1SS133-T2	DIODE		
D3302	1SS133-T2	DIODE		
D3401	1SS133-T2	DIODE		
D3402	1SS133-T2	DIODE		
D3501	1SS133-T2	DIODE		
D3502	1SS133-T2	DIODE		
D3601	1SS133-T2	DIODE		
D3602	1SS133-T2	DIODE		
D3703	MTZJ11C-T2	Z DIODE		
D3706	1SS133-T2	DIODE		
D3707	1SS133-T2	DIODE		
D3708	1SS133-T2	DIODE		
⚠ C101	QCZ9105-472	C CAPACITOR	4700pF 250V M	
C151	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C152	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C153	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C154	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C155	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C156	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C157	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C158	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C159	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C161	QETM1HM-338	E CAPACITOR	3300uF 50V M	
C162	QETM1HM-338	E CAPACITOR	3300uF 50V M	
C163	QETM1EM-478	E CAPACITOR	4700uF 25V M	
C164	QETM1EM-478	E CAPACITOR	4700uF 25V M	
C165	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C166	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C167	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C168	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C171	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C172	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C501	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C502	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C512	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C522	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C523	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C571	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C591	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C592	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C602	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C603	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C604	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C605	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C606	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2102	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2103	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2104	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2105	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2106	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2107	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2108	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2202	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2203	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2205	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2206	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2207	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2208	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2211	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2212	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2302	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2305	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2306	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2307	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2308	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2311	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2312	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2402	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2403	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2404	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2405	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2406	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2407	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2408	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2411	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2412	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2502	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2504	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2505	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2506	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2507	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2508	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2511	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2512	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2602	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2603	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2604	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2605	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2606	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2607	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2608	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2611	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2612	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2701	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2702	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C2703	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2704	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C2705	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2706	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2707	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2711	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2712	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C2713	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3101	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3102	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3103	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3104	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3201	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3202	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3203	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3204	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3301	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3302	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3303	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3304	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3401	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3402	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3403	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3404	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3501	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3502	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3503	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3504	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3601	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3602	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C3604	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3701	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3702	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3703	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3704	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3705	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3706	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3715	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3716	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C3720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3721	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
R151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R152	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R161	QRZ9005-100X	FUSI RESISTOR	10Ω	
R162	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
⚠ R163	QRZ9005-100X	FUSI RESISTOR	10Ω	
R164	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
R165	QRJ146J-221X	UNF C RESISTOR	220Ω 1/4W J	
R166	QRL027J-391	OMF RESISTOR	390Ω 2W J	
⚠ R171	QRL027J-470	OMF RESISTOR	47Ω 2W J	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R522	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R523	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R534	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R535	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R539	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R540	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R553	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R554	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R555	QRJ146J-271X	UNF C RESISTOR	270Ω 1/4W J	
R556	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R557	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R558	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R559	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R560	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R561	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R562	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R563	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R572	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R574	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R602	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R603	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R606	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R608	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R611	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R612	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R613	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R614	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R622	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R623	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R624	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R625	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R626	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R627	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R628	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R631	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R633	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R635	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R637	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R640	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R641	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R642	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R643	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R644	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R645	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2102	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2103	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2104	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2105	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2106	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2108	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2109	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2110	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2111	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2112	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2114	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2203	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2204	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2205	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2206	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2207	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2208	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2209	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2210	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2211	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2214	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2215	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2302	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2303	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2304	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2305	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2306	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2308	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2310	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2311	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2312	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2313	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2314	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2315	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2402	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2403	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2404	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2405	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2406	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2407	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2408	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2409	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2410	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2411	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2413	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2414	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2415	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2502	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2503	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2504	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2505	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2506	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2508	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2510	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2511	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2512	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2513	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2515	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2602	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2603	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2604	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2605	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2606	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2607	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2609	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2610	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2611	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2612	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2613	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2615	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R2701	QRZ9005-220X	FUSI RESISTOR	22Ω	
⚠ R2702	QRZ9005-470X	FUSI RESISTOR	47Ω 1/4W G	
R2703	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R2704	QRK126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J	
R2705	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
⚠ R2706	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2707	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2708	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2709	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
⚠ R2710	QRZ9005-100X	FUSI RESISTOR	10Ω	
R2711	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2721	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R2722	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3101	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3102	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3103	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3104	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3105	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3106	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3107	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3108	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3110	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3111	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3112	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3201	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3202	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3204	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3205	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3206	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3207	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3208	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3209	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3210	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3211	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3301	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3302	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3303	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3304	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3305	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3306	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3307	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3310	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3311	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3312	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3313	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3401	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3402	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3403	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3404	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3405	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3406	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3407	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3408	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3410	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3411	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3501	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3502	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3504	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3505	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3506	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3507	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3508	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3510	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3511	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3601	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3602	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3605	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R3607	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3611	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3718	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3719	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
⚠ R3720	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3725	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
⚠ R3727	QRL01DJ-180X	OMF RESISTOR	18Ω 1W J	
R3728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3729	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3730	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3732	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3741	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3742	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
L2101	QQLZ038-R45	COIL	0.45uH	
L2201	QQLZ038-R45	COIL	0.45uH	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L2202	QQLZ038-R45	COIL	0.45uH	
L2301	QQLZ038-R45	COIL	0.45uH	
L2302	QQLZ038-R45	COIL	0.45uH	
L2401	QQLZ038-R45	COIL	0.45uH	
L2402	QQLZ038-R45	COIL	0.45uH	
L2501	QQLZ038-R45	COIL	0.45uH	
L2502	QQLZ038-R45	COIL	0.45uH	
L2601	QQLZ038-R45	COIL	0.45uH	
L2602	QQLZ038-R45	COIL	0.45uH	
B1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ CN101	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN102	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN151	QGA3901C1-05	CONNECTOR	W-B (1-5)	
CN271	QGB2510J1-14	CONNECTOR	B-B (1-14)	
CN272	QGB2510J1-09	CONNECTOR	B-B (1-9)	
CN273	QGB2510J1-14	CONNECTOR	B-B (1-14)	
CN274	QGA3901C1-02	CONNECTOR	W-B (1-2)	
CN371	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN372	QGB2510K2-09	CONNECTOR	B-B (1-9)	
CN373	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN501	QGB2510K2-14	CONNECTOR	B-B (1-14)	
CN502	QGB2510K2-14	CONNECTOR	B-B (1-14)	
EP201	QNZ0136-001Z	EARTH PLATE		
EP501	QNZ0136-001Z	EARTH PLATE		
FC101	QNG0003-001Z	FUSE CLIP		
FC102	QNG0003-001Z	FUSE CLIP		
FC155	QNG0003-001Z	FUSE CLIP		
FC156	QNG0003-001Z	FUSE CLIP		
FC157	QNG0003-001Z	FUSE CLIP		
FC158	QNG0003-001Z	FUSE CLIP		
FW501	QUM213-28Z4Z4	RIBBON WIRE		
HS151	QZW0138-001	HEAT SINK		
J2701	QND0118-001	DIN CONNECTOR		
J2702	QNB0195-001	SPEAKER TERMINA		
⚠ RY101	QSK0142-001	RELAY		
RY271	QSK0127-001	RELAY		
RY272	QSK0127-001	RELAY		
RY273	QSK0127-001	RELAY		
TH271	QAD0146-103	N THERMISTOR	10kΩ	
WC201	QZW0112-001	WIRE CLAMP		
X601	QAX0246-001Z	C RESONATOR	8.00MHz	

DVD servo board
(FTU-DE3-21M) (TH-S7,TH-S9)

Block No. [0][6][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0004AA-H	IC		
IC302	LM1117MP-ADJ-X	IC		
IC305	MM1563DF-X	IC	3.3V Regulator	
IC453	S-80827CNNB-W	IC		
IC505	K4S643232F-TC60	IC		
IC509	AT49BV322AT70TI	IC(FLASH)		
IC512	SN74LVC373APW-X	IC(DIGITAL)		
IC513	SN74LVC373APW-X	IC(DIGITAL)		
IC701	AK4384VT-X	IC		
IC702	AK4384VT-X	IC		
IC703	AK4384VT-X	IC		
IC704	CS5342-CZZ-X	IC(DIGITAL)		
IC705	MM1615AN-X	IC		
Q101	KTA1001/Y/-X	TRANSISTOR		
Q101 or	2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	KTA1001/Y/-X	TRANSISTOR		
Q103 or	2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q105	UN2119-X	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C260	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C261	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C262	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C300	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NEA70GM-227X	E CAPACITOR	220uF 4V M	
C302	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C303	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C308	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C311	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C326	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C351	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C371	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C391	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C455	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C556	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C558	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C701	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C702	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C703	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C704	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C706	NEA71AM-106X	E CAPACITOR	10uF 10V M	
C707	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C708	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C709	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C711	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C712	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C713	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C741	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C742	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C743	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C748	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C749	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R103	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R104	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R105	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R112	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R113	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R125	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R126	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R127	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R128	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R302	NRSA63J-240X	MG RESISTOR	24Ω 1/16W J	
R303	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R312	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R330	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R331	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R332	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R341	NRSA63D-362X	MG RESISTOR	3.6kΩ 1/16W D	
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R345	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R360	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R368	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R369	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R388	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R394	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R395	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R399	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R411	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R412	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R413	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R414	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R415	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R416	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R417	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R421	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R422	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R423	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R424	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R425	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R426	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R427	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R452	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R457	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R704	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R705	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R706	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R707	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R708	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R714	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R715	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R716	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R731	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R734	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R735	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R741	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R742	NRSA63J-5R1X	MG RESISTOR	5.1Ω 1/16W J	
R743	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R744	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R745	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R749	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R792	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R990	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN101	QGF0523F1-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1037F1-08W	CONNECTOR	FFC/FPC (1-8)	
CN501	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN502	QGF1016F2-09W	CONNECTOR	FFC/FPC (1-9)	
CN503	QGF1016F2-17W	CONNECTOR	FFC/FPC (1-17)	
CN504	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
CN511	QGF0523F1-16W	CONNECTOR	FFC/FPC (1-16)	
K101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K350	NQR0502-001X	FERRITE BEADS		
K352	NQR0502-001X	FERRITE BEADS		
K551	NQR0129-002X	FERRITE BEADS		
K552	NQR0129-002X	FERRITE BEADS		
K553	NQR0129-002X	FERRITE BEADS		
K554	NQR0129-002X	FERRITE BEADS		
K555	NQR0022-005X	FERRITE BEADS		
K556	NQR0129-002X	FERRITE BEADS		
K591	NQR0022-005X	FERRITE BEADS		
K592	NQR0022-005X	FERRITE BEADS		
K593	NQR0022-005X	FERRITE BEADS		
K594	NQR0022-005X	FERRITE BEADS		
K595	NQR0022-005X	FERRITE BEADS		
K596	NQR0022-005X	FERRITE BEADS		
K597	NQR0022-005X	FERRITE BEADS		
K598	NQR0022-005X	FERRITE BEADS		
K599	NQR0022-005X	FERRITE BEADS		
K710	NQR0129-002X	FERRITE BEADS		
K791	NQR0502-001X	FERRITE BEADS		
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X351	NAX0550-001X	CRYSTAL	27.000MHz	

DVD loading switch board (FMU-DE3-21M) (TH-S7,TH-S9)

Block No. [0][7][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1007-001	DETECT SWITCH		

DVD servo board (FTU-DE3-2M) (TH-S8)

Block No. [0][8][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0004AA-H	IC		
IC302	LM1117MP-ADJ-X	IC		
IC305	MM1563DF-X	IC	3.3V Regulator	
IC453	S-80830CNNB-G-W	IC		
IC505	K4S643232F-TC60	IC		
IC505 or	K4S643232H-TC60	IC		
IC509	AT49BV322AT70TI	IC(FLASH)		
IC509 or	MBD32TF70TN	IC(MICRO C ROM)		
IC512	SN74LVC373APW-X	IC(DIGITAL)		
IC513	SN74LVC373APW-X	IC(DIGITAL)		
IC701	AK4384VT-X	IC		
IC702	AK4384VT-X	IC		
IC703	AK4384VT-X	IC		
IC704	CS5342-CZZ-X	IC(DIGITAL)		
IC705	MM1615AN-X	IC		
Q101	KTA1001/Y/-X	TRANSISTOR		
Q101 or	2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	KTA1001/Y/-X	TRANSISTOR		
Q103 or	2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q105	UN2119-X	TRANSISTOR		
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C260	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C261	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C262	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C300	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NEA70GM-227X	E CAPACITOR	220uF 4V M	
C302	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C303	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C308	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C311	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C326	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C351	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C371	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C391	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C455	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C556	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C558	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C701	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C702	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C703	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C704	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C706	NEA71AM-106X	E CAPACITOR	10uF 10V M	
C707	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C708	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C709	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C711	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C712	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C713	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C741	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C742	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C743	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C748	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C749	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C761	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R103	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R104	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R105	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R112	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R113	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R125	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R126	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R127	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R128	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R302	NRSA63J-240X	MG RESISTOR	24Ω 1/16W J	
R303	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R312	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R330	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R331	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R332	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R341	NRSA63D-362X	MG RESISTOR	3.6kΩ 1/16W D	
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R360	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R368	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R369	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R388	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R394	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R395	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R399	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R452	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R457	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R704	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R705	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R706	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R707	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R708	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R714	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R715	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R716	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R731	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R734	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R735	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R741	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R742	NRSA63J-5R1X	MG RESISTOR	5.1Ω 1/16W J	
R743	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R744	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R745	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R749	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R990	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN101	QGF0523F1-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1037F1-08W	CONNECTOR	FFC/FPC (1-8)	
CN501	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN502	QGF1016F2-09W	CONNECTOR	FFC/FPC (1-9)	
CN503	QGF1016F2-17W	CONNECTOR	FFC/FPC (1-17)	
CN504	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
K101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K350	NQR0502-001X	FERRITE BEADS		
K352	NQR0502-001X	FERRITE BEADS		
K551	NQR0129-002X	FERRITE BEADS		
K552	NQR0129-002X	FERRITE BEADS		
K553	NQR0129-002X	FERRITE BEADS		
K554	NQR0129-002X	FERRITE BEADS		
K555	NQR0022-005X	FERRITE BEADS		
K556	NQR0129-002X	FERRITE BEADS		
K710	NQR0129-002X	FERRITE BEADS		
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X351	NAX0550-001X	CRYSTAL	27.000MHz	

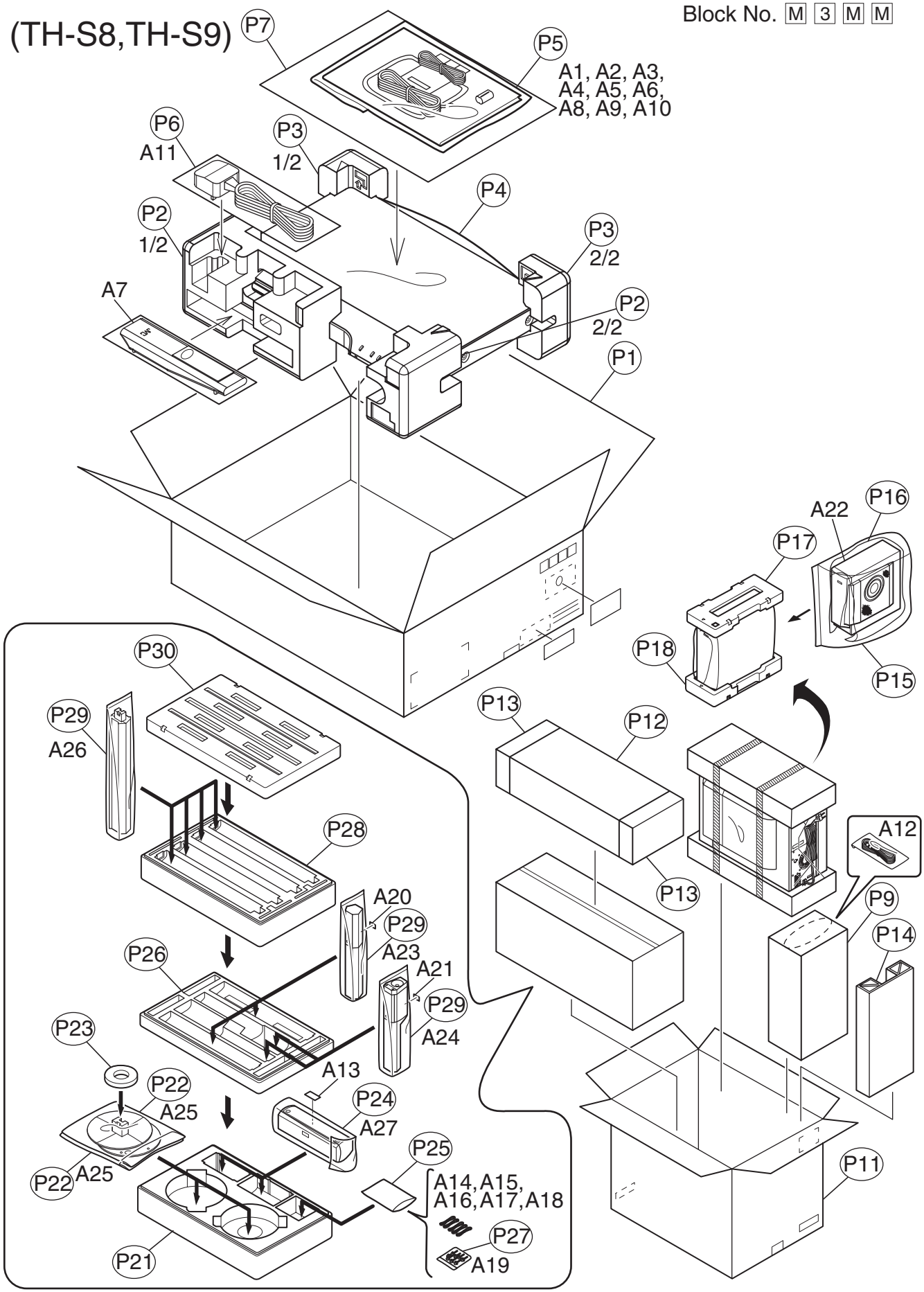
DVD loading switch board (FMU-DE3-2M) (TH-S8)

Block No. [0][9][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1007-001	DETECT SWITCH		

Packing materials and accessories parts list

Block No. M 3 M M



Packing and Accessories (TH-S8,TH-S9)

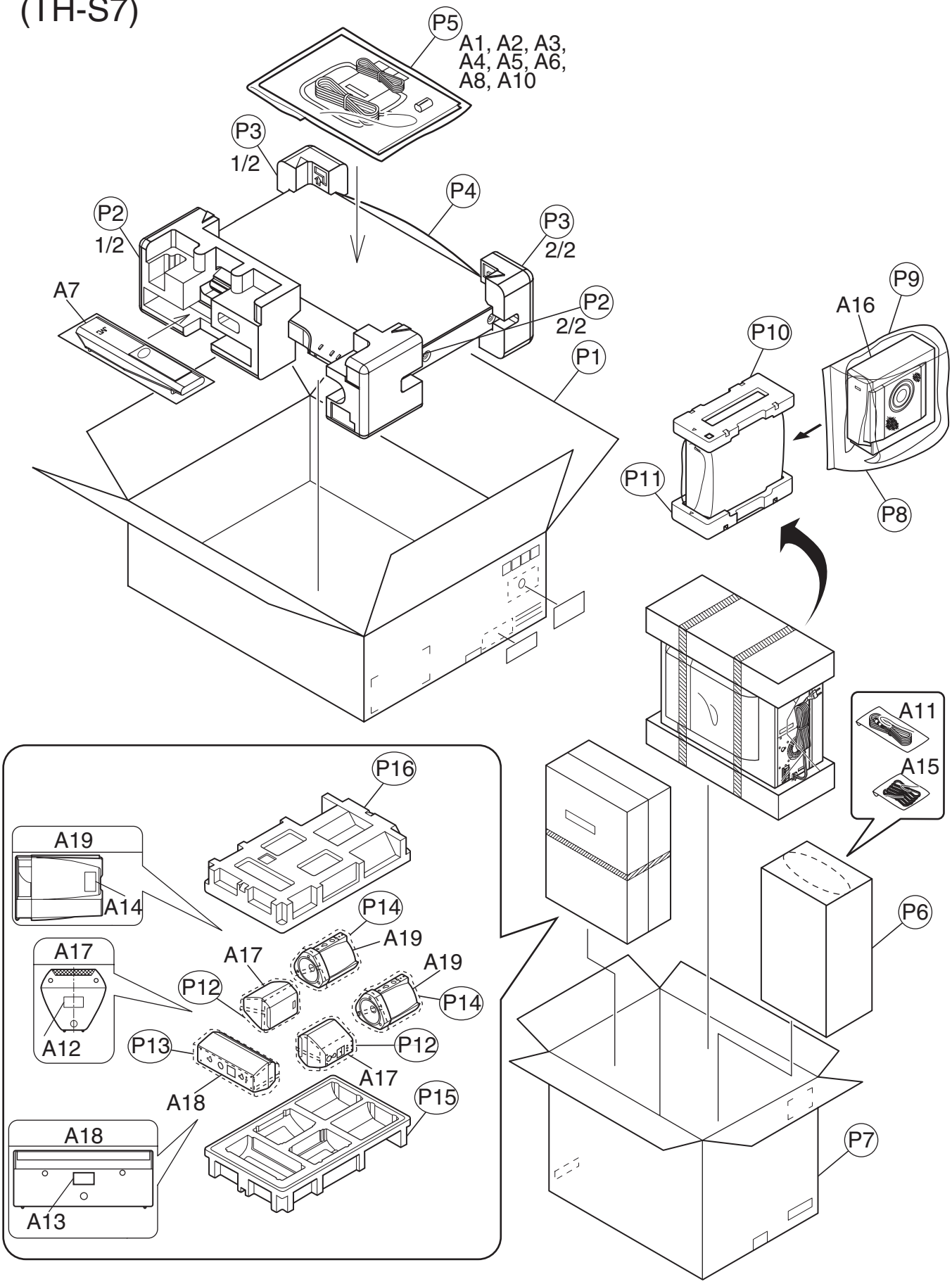
Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1148-003C	INST BOOK	ENG	S8B
	A 1	LVT1148-004C	INST BOOK	GER,FRE	S8E,S8EN
	A 1	LVT1149-003A	INST BOOK	ENG	S9B
	A 1	LVT1149-004A	INST BOOK	GER,FRE	S9E,S9EN
	A 1	LVT1149-008A	INST BOOK	POL,HUN,CZE	S9EV
	A 2	LVT1148-005C	INST BOOK	DUT	S8E
	A 2	LVT1148-006C	INST BOOK	SPA,ITA	S8EN
	A 2	LVT1149-005A	INST BOOK	DUT	S9E
	A 2	LVT1149-006A	INST BOOK	SPA,ITA	S9EN
	A 3	BT-54013-7	WARRANTY CARD		
⚠	A 4	QMPL060-183-JD	POWER CORD(EU)	1.83m BLACK	S8E,S8EN,S9E,S9EN,S9EV
	A 5	QAL0457-001	ANT.WIRE		
	A 6	QAL0014-001	AM LOOP ANT		
	A 7	RM-STHS5R	REMOCON UNIT		S8
	A 7	RM-STHS7R	REMOCON UNIT		S9
	A 8	----------	BATTERY	(x2)	
	A 9	VNA3000-204	REGISTER CARD		S8B,S9B
	A 10	LVT1148-007C	INST BOOK	SWE,FIN,DAN	S8EN
	A 10	LVT1149-007A	INST BOOK	SWE,FIN,DAN	S9EN
⚠	A 11	QMPP060-183-JD	POWER CORD(EU)	1.83m BLACK	S8B,S9B
	A 12	QAM0588-001	DIN CABLE		
	A 13	6000207011	RATING LABEL(C)		
	A 14	6200044801	SPEAKER CORD		
	A 15	6200044811	SPEAKER CORD		
	A 16	6200044821	SPEAKER CORD		
	A 17	6200044831	SPEAKER CORD		
	A 18	6200044841	SPEAKER CORD		
	A 19	7000752006	SCREW	(x8)	
	A 20	6000207091	RATING LABEL(F)	(x2)	
	A 21	6000207301	RATING LABEL(S)	(x2)	
	A 22	SPPWS5E-SPBOX	SPEAKER BOX		
	A 23	SPS9-FRSPBOX	SPEAKER BOX	FRONT(x2)	
	A 24	SPS9-SUSPBOX	SPEAKER BOX	SURROUND(x2)	
	A 25	SPS9-STAND	STAND BASE	(x4)	
	A 26	SPS9-STANDREAR	STAND	(x4)	
	A 27	AB050019-01	SPEAKER BOX	CENTER	
	P 1	LV35275-001A	CARTON BOX		S8
	P 1	LV34617-001A	CARTON BOX		S9
	P 2	LV21624-001A	CUSHION(F)		
	P 3	LV21625-001A	CUSHION(R)		
	P 4	QPC05006515P	POLY BAG	50cm x 65cm	
	P 5	QPA02503505P	POLY BAG	25cm x 35cm	
	P 6	QPA01503503	POLY BAG	15cm x 35cm	S8B,S9B
	P 7	LV43940-001A	CARTON SPACER		S8
	P 9	LV35002-010A	ACCESSORY BOX		S8B,S9B
	P 9	LV35002-009A	ACCESSORY BOX		S8E,S8EN,S9E,S9EN,S9EV
	P 11	LV35231-003A	CARTON BOX		S8
	P 11	LV34350-077A	CARTON BOX		S9
	P 12	LV35003-007A	CARTON SPACER		
	P 13	LV43933-001A	PACKING PAD	(x2)	
	P 14	LV35004-001A	CARTON SPACER		S8B,S9B
	P 15	8500051901	POLY BAG		
	P 16	8500051881	MIRROR MAT		
	P 17	8000053901	TOP CUSHION		
	P 18	8000053911	BOTTOM CUSHION		
	P 21	8000055001	CUSHION A		
	P 22	8500045491	MIRROR MAT BAG	FOR STAND ASSY(x4)	
	P 23	8000051901	CUSHION	LV34230-001A(x2)	
	P 24	8500051971	POLY BAG		
	P 25	8500041651	POLY BAG		
	P 26	8000055011	CUSHION B		
	P 27	8500047111	POLY BAG		
	P 28	8000055021	CUSHION C		
	P 29	8500043471	POLY BAG	(x8)	
	P 30	8000055031	CUSHION D		

Packing materials and accessories parts list

Block No. M 4 M M

(TH-S7)



Packing and Accessories (TH-S7)

Block No. [M][4][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1149-004A	INST BOOK	GER,FRE	S7E,S7EN
	A 1	LVT1149-008A	INST BOOK	POL,HUN,CZE	S7EV
	A 2	LVT1149-005A	INST BOOK	DUT	S7E
	A 2	LVT1149-006A	INST BOOK	SPA,ITA	S7EN
	A 3	BT-54013-7	WARRANTY CARD		
⚠	A 4	QMPL060-183-JD	POWER CORD(EU)	1.83m BLACK	
	A 5	QAL0457-001	ANT.WIRE		
	A 6	QAL0014-001	AM LOOP ANT		
	A 7	RM-STHS7R	REMOCON UNIT		
	A 8	----------	BATTERY	(x2)	
	A 10	LVT1149-007A	INST BOOK	SWE,FIN,DAN	S7EN
	A 11	QAM0588-001	DIN CABLE		
	A 12	6000207001	RATING LABEL(F)	(x2)	
	A 13	6000207011	RATING LABEL(C)		
	A 14	6000206321	RATING LABEL(S)	(x2)	
	A 15	62-000-451-01	SUPPLIED CORD A		
	A 16	SPPWS5E-SPBOX	SPEAKER BOX		
	A 17	AB080053-01	SPEAKER BOX	FRONT(x2)	
	A 18	AB050019-01	SPEAKER BOX	CENTER	
	A 19	AB080047-01	SPEAKER BOX	SURROUND(x2)	
	P 1	LV34616-001A	CARTON BOX		
	P 2	LV21624-001A	CUSHION(F)		
	P 3	LV21625-001A	CUSHION(R)		
	P 4	QPC05006515P	POLY BAG	50cm x 65cm	
	P 5	QPA02503505P	POLY BAG	25cm x 35cm	
	P 6	LV35002-007A	ACCESSORY BOX		
	P 7	LV34350-076A	CARTON BOX		
	P 8	8500051901	POLY BAG		
	P 9	8500051881	MIRROR MAT		
	P 10	8000053901	TOP CUSHION		
	P 11	8000053911	BOTTOM CUSHION		
	P 12	8500051961	POLY BAG	(x2)	
	P 13	8500051971	POLY BAG		
	P 14	8500043421	POLY BAG	(x2)	
	P 15	8000054711	BOTTOM CUSHION		
	P 16	8000054701	TOP CUSHION		